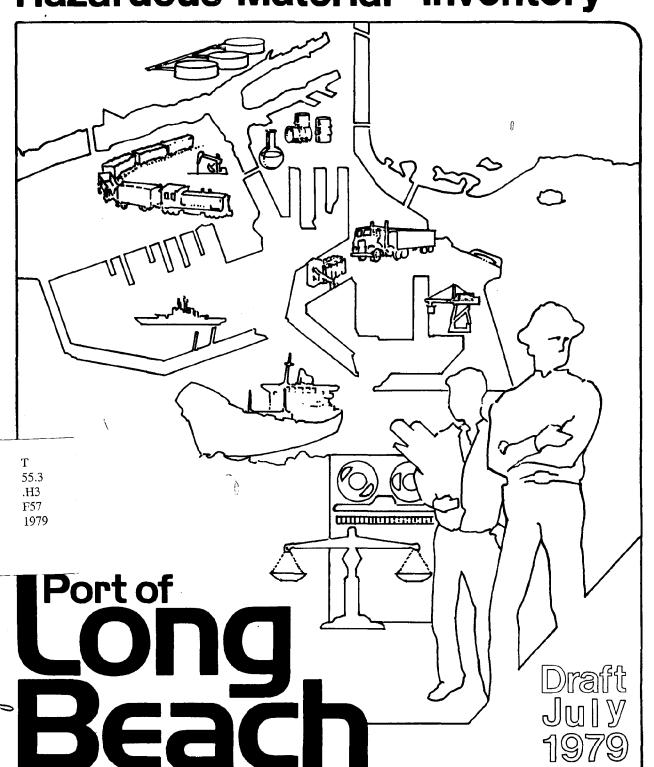
<u>Risk</u> Management Phase 1 Study

## **Hazardous Material Inventory**



tal Commission

Jalifania Cha

PHASE I

RISK MANAGEMENT PLAN STUDY

DRAFT

First Increment

• • •

Hazardous Material Inventory

Progress Report

Prepared as a Supplement to the Port Master Plan certified by the California Coastal Commission, and in conjunction with a grant to the Office of Coastal Zone Management, National Oceanic and Atmospheric Administration, under the provisions of the Federal Coastal Zone Management Act of 1972, as amended.

July, 1979

PORT OF LONG BEACH, CALIFORNIA

### LONG BEACH HARBOR DEPARTMENT

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EXECUTIVE OUTLINE

### EXECUTIVE OUTLINE

- I. MANDATES FOR PORT MASTER PLAN AND RISK MANAGEMENT PLAN
  - A. <u>Coastal Act</u> Findings and Policies on Safety and Protection. See "Mandates" text on Coastal Act Findings.
  - B. <u>Coastal Commission's (CCC)</u> Conditions of Certification of Port Master Plan:

"The Commission shall withhold certification of all areas in the Port where petroleum, petrochemicals or other similar bulk liquid cargoes of hazardous nature are presently handled or are proposed to occur until such time as the Risk Management Plan (RMP) is completed and adopted by the Commission as an amendment to the Certified Port of Long Beach Master Plan."

C. Coastal Energy Impact Program (CEIP) Sponsorship of Hazardous Material Inventory (HMI) on a 20/80 percent cost sharing basis (Port, \$6,475/CEIP, \$25,900).

#### II. UPDATE

Α.	Initial CEIP Application	10/12/77
В.	RMP Program Approval by . CCC, Subject to Cond's	2/28/78
c.	Final Port Master Plan Distributed	6/6/78
D.	CEIP Funding of RMP Approved	8/10/78
E.	CCC Certification of Port Master Plan - Subjected to Cond's	10/17/78
F.	Port Staff Briefing on Risk Mgmt Study & HMI	11/28/78
G.	CCC RFP on RMP	3/4/79
н.	Port Testimony on H.R. 2994 Port Safety Bill	4/27/79
ı.	HMI Task Force Briefing	5/3/79
J.	CCC Risk Mgmt. Briefing	5/18/79

#### III. PROGRAM

### A. Overall Program Goals

- o Address HM transport and storage in the Port.
- o Minimize adverse impacts of HM to public, prop., & env.
- o Buffer and control HM activities in the Port.
- o Improve safety in the Port.
- Inform the public of Port efforts on Risk Mgmt.
- Encourage Interagency cooperation on Risk Mgmt.
- o Promote continued efforts toward reasonable safety.

#### B. Three Phase Program Overview

### 1. Phase I - Information

Data collection, evaluation and consolidation of information on Hazardous Materials and Safety Measures in the Port.

### 2. Phase II - Planning

Development of Goals, Objectives, Criteria, Priorities, Standards and Strategies for Risk Management in the Port.

### 3. Phase III - Legislation and Administration

Assessment of existing and development of proposed legislative and/or administrative requirements or guidelines for Risk Management in the Port.

### C. Phase I - Information - Incrementation Outline

1. First Increment - Hazardous Material Inventory

Identification, Measurement and Documentation of Existing and Potential hazards in the Port of Long Beach.

2. <u>Second Increment - Public and</u>
Agency Participation

Preparation of interim report, discussions with Coastal Commission Staff and Consultants, review by other Agencies (Coast Guard, Fire Department, etc...), public workshops, hearings, tours.

3. Third Increment - Feedback and Final Phase I Report

Revisions, extensions, incorporation of comments and preparation and distribution of final report for Phase I.

### IV. PRODUCTS

- A. Hazardous Material Inventory Overview
  - 1. HMI Objectives

To identify, measure, and document existing and potential hazards in the Port of Long Beach.

To identify any problems or discrepencies which exist between HM activities and current safety measures.

To report on the above findings and present conclusions and recommendations.

- 2. Hazardous Material Inventory Study Product Outline
  - a. Waterfront
  - b. Support/Logistics Facilities
  - c. Transportation Modes
  - d. Existing Contingencies

- B. Terminal Water Approach Inventory
  - 1. Wind Conditions
  - 2. Hydrography
  - 3. Water Depths
  - 4. Navigational Aids
  - 5. Vessel Safety
- C. Transportation/Storage Inventory
  - 1. Transportation Access,
    - a. Railroad Access, Location and Extent of rail system.
    - Roadway Access Layout, traffic density, capacity.
    - c. Pipeline Bunker lines, crude and product pipelines, operations, locations number, size, capacity, distance to storage.
  - Storage Operator, location type, commodity, number, capacity.
- D. Vessel Inventory
  - 1. Vessel Visits Distribution by type of hazardous cargo and Harbor District.
  - 2. Berths handling hazardous materials.
  - 3. Berth throughput, inventory by time at berth, bunker, destination, vessels, cargo type.
  - 4. Hazardous commodity inventory by commodity, cargo type, hazard class, destination, and Berth.
- E. Waterfront Facilities Survey
  - 1. Facility inventory.
    - a. Existing petroleum facilities, inventory consisting of wharf characteristics, terminal operations, summary, etc...

- b. Existing liquid bulk (chemicals/oils) facilities.
- c. Berth layout, showing terminal and open storage designations.
- d. U.S. Coast Guard waterfront facilities survey by Berth.
- e. Fire system layout by Berth.
- 2. Terminal Maintenance Program (Public & Private)
  - a. Preventive Maintenance Program.
  - b. Normal Maintenance.
  - c. Fire Systems Maintenance.
  - d. Procedures in Emergency for Maintenance Division Personnel.
  - e. Fire System Maintenance Responsibilities, Lessee, Responsibilities, Location.
- 3. Terminal Safety Provisions (Public & Private)
  - a. Hazardous Material Handling Safety Meeting on plans and measures used by Stevedores in the Port.
  - b. Port Warden Standard Operating Procedure.
  - c. Hazardous Materials Storage Guide.
  - d. Hazardous Material Handling Packet.
  - e. Checklist for the Safe Handling of Hazardous Materials.
- F. Property Status Inventory
  - Renter status Renter, Location and Berth, Term and Type of Lease, Insurance Status.
  - Pipeline Permits Operator, Permit Number, Description, Harbor Documents.
- G. Inter-Agency Coordination
  - 1. Other agency responsibilities in the Port.
  - 2. City Risk Management Authority.

- a. Public Safety Element
- b. Long Beach Emergency Plan
- c. Risk Management Activities of City Agencies
- San Pedro Bay Navigational Operating Procedures/ Regulations and Practices
- 4. Navy Base Homeporting.

MANDATES
AND
UPDATE

### CHAPTER 1 MANDATES AND UPDATE

The Coastal Act of 1976 established among its primary findings and declarations, the need "to promote public safety, health, and welfare, and to protect public and private property, wildlife, marine fisheries, and other ocean resources, and the natural environment" (Section 30001(c)). It also declared that to achieve maximum local response, it is necessary to rely heavily on local government and local land use planning procedures and enforcement (Section 30003(a)).

Policies on safety and protection of particular significance to ports were presented in Chapter 8 of the Coastal Act. Relevant policies mandated by the Act in this Chapter include the following: minimizing the volume of oil spilled and the risks of vessel collisions, and providing effective oil spill containment and recovery systems (Section 30707); and minimizing the substantial adverse environmental impacts and potential vessel traffic conflicts due to development (Section 30708).

The Coastal Act also amended Section 31342.5 of the Water Code with respect to certain safety and protection measures. Toxic and hard-to-treat substances were required to be pretreated at the source to facilitate effective and treatment that was economically feasible and not otherwise available at municipal treatment plants.

The Port Master Plan was certified by the Coastal Commission on October 17, 1978 subject to a set of conditions which included a mandate relative to risk management. Condition #1 stipulated that the Commission withhold certification of "all areas within the Port of Long Beach jurisdiction where petroleum, petrochemicals or other similar bulk liquid cargoes of a hazardous nature are presently handled or are proposed to occur until such time as the Risk Management Plan is completed and adopted by the Commission as an amendment to the Certified Port of Long Beach Master Plan".

The Risk Management study was undertaken under a Coastal Energy Impact Program (CEIP) grant administered in California by the Coastal Commission. CEIP was created under the provisions of the Federal Coastal Zone Management Act of 1972 in large part to mitigate the impacts of energy activities and developments upon coastal areas. The Port of Long Beach first applied for a grant on October 12, 1977.

On February 28, 1978, the Coastal Commission approved the Risk Management Study grant subject to certain conditions. One condition included joint development of the RMP by the Port of Long Beach and the Port of Los Angeles. Other conditions included a 20% in-kind or cash local match to the CEIP grant, pursuit of alternative sources of funding, and use, to the extent feasible, of consultants with expertise in the field of Risk Management. The condition involving the two Ports was modified as follows: "The Port of Long Beach shall provide to the Port of Los Angeles information and experience acquired in the development of their Risk Management Plan."

On June 6, 1978, the Final Port Master Plan was distributed for general review. Appendix A of this document contained a general review of the proposed risk management program.

Due to budget constraints on the CEIP program in 1978, the phases of the Risk Management Study had to be subdivided into increments to permit adequate funding within the specified time frame. Negotiations on the scope and cost of the program continued until September 10, 1978 when funding for the first increment of the program "the Hazardous Material Inventory" was approved by the Coastal Commission. A grant was approved for \$25,834 in CEIP funds on the basis that the Port would contribute \$6,459 based on an 20/80 percent cost sharing ratio, (ie. 20% Port/80% CEIP). The Total funding for the increment was thus \$32,293.

The Port Master Plan was certified on October 17, 1978 along with the conditions described in the discussion of "Mandates". This action made the RMP a required supplement to the Port Master Plan and added impetus to the program.

Between October 1978 and the present a series of activities have occurred in preparation for the Hazardous Material Inventory. The Port's executive staff has been briefed on the program, an interdisciplinary and interdivisional study task force was established, a consultant was selected by the Coastal Commission to monitor risk management activities and the Commission Staff has been briefed on the Port's program status. In addition, the Port has presented testimony in support of H.R. 2994 to the Port Safety Bill which was recently debated by Congress in Washington.

PROGRAM

### CHAPTER 2 PROGRAM

### Section 1 SCOPE AND DEFINITION

The Risk Management Plan (RMP) is intended as an element of the Port Master Plan to facilitate decision makers in management of Port development consistent with the intent of the Coastal Act. The Harbor Department is pursuing the risk management plan through a grant from the Coastal Energy Impact Program (CEIP) under the coordination of the California Coastal Commission. The purpose of this program is to develop a policy and program instrument to facilitate the effective control and management of specified potential hazards in the Port and vicinity.

The RMP will establish a set of goals and objectives with respect to significant hazards, addressing the needs for information, planning, management and enforcement. Potential hazards will be identified, assessed in terms of past experience and likelihood of occurrence, and evaluated in terms of legal liability where applicable. The current status of Port resources will be addressed in terms of their qualitative and quantitative characteristics to establish an index for future changes of characteristics.

The definition of risk management can be derived in a number of ways depending on the source and the application. The general denotative definition of risk management may be derived from Webster's Dictionary by combining applicable definitions of the concepts of "risk" and "management". "Risk" is defined as a dangerous element or factor; a chance of loss or the perils to the subject matter of an insurance contract; the degree of probability of such loss; a person or thing that is a specified hazard to an insurer. "Management" is defined as the art of managing, controlling or direction; judicious uses of means to accomplish an end. Thus, "risk management" may be denotatively defined as the judicious uses of means for managing, controlling or directing the probability of loss due to specified hazards.

The term "risk management" has been used commonly in the insurance field to connote analysis, evaluation, abatement, transfer of liabilities and accounting activities for the purpose of determining sources of risk, evaluating the impacts on individuals and organizations, and establishing adequate compensation for the loss of tangible and intangible assets. Due to the extensive use of the term in insurance, the use of the term in its broader denotative context is easily misunderstood.

The definition of risk management sought for the purpose of this text, however, is neither so general as to encompass management of any potential hazard, as inferred by the denotative definition above, nor so specific as to concern itself exclusively with the

inferred by the connotative definition above. Rather, an "operational" definition is required which addresses the particular concerns of the proposed Port Master Plan. This definition of risk management is as follows:

The effective management, control and direction of specified potential hazards with respect to existing and proposed development in the Port and vicinity with the aim of preventing and minimizing potential loss, injury or damage to persons, property, natural or economic resources. These specified hazards include but are not restricted to the following: hazardous substances, especially crude oil, gas, petroleum or other substances, toxicant, vessel hazards; and waste hazards.

The latter definition addresses the principal concerns for safety expressed in the Coastal Act.

### Section 2 GOALS AND OBJECTIVES

The Coastal Act of 1976 is a primary source for goals, as are the declared policies of the City and the Port of Long Beach. Public concerns as expressed at various public hearings, at the Local Coastal Planning Committee meetings and at Port Master Plan workshops also have had an influence on the evolution of these goals. Goals herein addressed are not only singular achievements as is implied by the term "end", rather, risk management goals are viewed as a series of end states linked into an ongoing process. This endeaver necessitates constant vigilance and preparedness.

The process of goal formulation is viewed as dynamic and flexible as is the process of realizing those goals. Therefore, the goals which are presented here are not to be considered final, immutable or all inclusive. Rather they must be considered subject to adaptation and change as the perceptions of problems and needs for risk management evolve, and as experience, increased knowledge, and "feedback" are obtained to better define the means and the ends upon which goal formulation is to be based. Alteration, updating, deletion or additions of goals in response to changing circumstances within the Port must be considered as one of the primary goals of risk management, for without such flexibility how is it possible to continue to be prepared for new conditions or potential hazards which may emerge in the future.

### Goals

The following non-exhaustive set of goals address the general aims for safety, protection and reduction of loss from specified real and potential hazards in and around the Port.

#### Information:

- 1. To promote, preserve and enhance public safety and welfare, and to protect public and private property, wildlife, marine fisheries, other ocean resources, and the natural environment generally from potential development hazards.
- 2. To inform public and private individuals, organizations and agencies of potential hazards, contingency plans, management procedures, and enforcement standards and measures with respect to risk management in the Port.
- 3. To encourge participation and cooperation between the Port and other agencies, organizations and individuals in the identification of real and potential hazards, and in the maintenance and preservation of safety in and around the Port.

4. To promote continued research, planning and development directed toward reducing the risk of specified potential hazards resulting from or impacting existing and proposed developments in the Port.

### Planning:

- 5. To provide guidance for and coordination of staff organization, emergency planning, disaster functions, and response operations for the safety and protection of persons, property and natural resources in the event of a disaster.
- 6. To monitor Port uses and resources subject to loss due to specified potential hazards, and to maintain reasonably current inventories of such uses and resources, including both quantitative descriptive values.
- 7. To draft prescriptive and performance criteria and standards as required for evaluating and reducing the risks of loss associated with Port developments.
- 8. To encourage the adoption of new administrative guidelines and legislative standards as required to improve risk management in the Port.

### Management:

- 9. To manage Port uses and resources in a manner which will encourage and insure the reduction of, protection from and prevention of social, environmental, technological and economic losses due to specified potential hazards.
- 10. To regulate land uses in the Port which present significant potential hazards in order to attain a safer and healthier environment, while maintaining a reasonable level of economic progress and development consistent with international, national, state and local interests in the Port.
- 11. To apply relevant methods, techniques and tools of planning and management for the purpose of minimizing the risks of loss due to potentially hazardous Port operations and developments.

#### Enforcement:

12. To enforce and facilitate other pertinent agencies in enforcing existing codes and standards regulating the prevention, containment, reduction and elimination of real and potential hazards in and around the Port.

- 13. To provide continued surveillance and open communciation channels in order to facilitate early identification and reporting on hazardous and dangerous conditions in the Harbor District.
- 14. To provide direct liaisons with other federal, state and local law and security enforcement agencies.
- 15. To collect and log information on hazardous cargoes, operations and conditions and to determine the responsibility and value for damages.

### Objectives

The four categories of goals enumerated above on information, planning, management and enforcement, each will require a wide range of secondary efforts. For the purpose of this discussion these secondary efforts will be referred to as "objectives" which are necessary to achieve the more comprehensive goals. The following is a non-exhaustive list of objectives associated with risk management in the Port:

### Information:

- To provide readily available information concerning the reduction and prevention of loss due to potential hazards in the Port.
- 2. To promote the necessity for immediate notification of hazardous occurrences to the Harbor Department and other pertinent agencies.
- 3. To facilitate prompt response to and containment of hazardous occurences in the Harbor District.
- 4. To define the authorities, responsibilities, duties and interfaces of persons, organizations or agencies with regard to potential hazards and hazardous occurrences so as to avoid redundancy of efforts for regulation and control, and minimize potential conflicts and confusion which may be generated during an emergency.
- To coordinate and cooperate with other political jurisdictions in implementing safety and disaster programs.
- 6. To promote the redevelopment of areas which may present safety problems.

- 7. To continue identifying existing or proposed uses or activities that may pose safety hazards.
- 8. To continue to inform the public of potential safety hazards and what to do in times of emergencies.
- 9. To provide available information concerning the prevention of oil, gas and other hazardous liquid and solid waste spills into the waters of Long Beach Harbor from any cause or source.
- 10. To encourage immediate notification of spillage to Harbor Department authorities and other pertinent agencies.
- 11. To provide available information concerning fire prevention on vessels, docks, and in other Port facilities and operations.
- 12. To provide available information on explosive, radioactive and otherwise hazardous materials handled in the Port area.
- 13. To provide information on potential traffic hazards and available preventive measures with regard to vessels, trains, and vehicles.
- 14. To inform Port employees, operators, and relevant segments of the public of existing emergency plans and measures to be taken in case of a major disaster.
- 15. To keep abreast of the state of technology to minimizing disruption to wildlife, marine life and water quality.
- 16. To provide available information on oil and gas developments in the Harbor, and measures being utilized at present to prevent various hazards due to such development, including oil spills, and water pollution.
- 17. To provide available information on potential hazards posed by petroleum and petrochemical facilities, power plants and other major industries in the Port and measures taken to reduce and to minimize these hazards.

### Planning

- 18. To establish safety guidelines to evaluate specified potential safety hazards and mitigate existing problems which are identified.
- 19. To provide development controls, where feasible, to isolate areas with significant land use hazards from other existing and developed portions of the Port and the City.

- 20. To critically evaluate proposed developments which may pose safety hazards.
- 21. To eliminate undesirable elements which may be detrimental to the preservation and improvement of the unique qualities of the Port and the City.
- 22. To utilize open space planning as one strategy for protecting the public from natural or artificial disasters.
- 23. To apply safety considerations to planning as criteria for encouraging and enhancing desired land use patterns.
- 24. To achieve greater safety and protection from hazards through deliberate physical planning.
- 25. To plan transportation systems, utilities, industries, and similar uses in the Port in a manner consistent with safety and protection of people, property, and the natural environment.
- 26. To encourage development which would be less vulnerable to natural disasters.
- 27. To encourage development which facilitates prevention and emergency response activities.
- 28. To establish notification procedures which provide for optimum use of time between detection and containment of oil, gas and other hazardous discharges.
- 29. To identify and establish priorities for critical water use areas for purposes of reporting and response to hazardous spills.
- 30. To prepare lists of names, telephone numbers and addresses of persons, organizations and agencies to be notified in cases of various kinds of emergencies.
- 31. To establish reliable communication within the Port and between the Port and other operatives relative to emergency response, especially where existing lines of communication are not adequate.
- 32. To establish procedures for combining and coordinating assistance efforts as required with local, regional, state and federal authorities during a major disaster which is beyond the Port's response capabilities.

- 33. To identify the resource capabilities for various contingencies in the Port and make them immediately known to relevant authorities including:
  - a. An inventory of equipment, materials and supplies available locally and regionally.
  - b. Assessment of facilities required to contain various potential hazards, especially oil spills.
- 34. To provide a set of procedures for response by the Harbor Department after discovery and notification of specified potential hazards.
- 35. To investigate the possibility of establishing open buffer zones around certain industrial uses, and between industrial and other uses in order to minimize potential safety hazards.
- 36. To encourage the development of new industries which reduce or offset gaseous emissions in the areas within and adjacent to the Port and to encourage existing industries to meet national, state and local ambient air quality standards.
- 37. To buffer hazardous activities, such as petroleum storage, production and distribution facilities, from other more sensitive land uses, where feasible.
- 38. To plan for consolidation of new or expanded oil and gas facilities within the Port to maximum extent environmentally, functionally, and economically feasible and legally permissible.
- 39. To plan drilling operations on platforms or islands so as to minimize the impact on water quality, marine life, visual quality and other environmental risks.
- 40. To site platforms, land fills, or islands so as to avoid any substantial hazards to vessel traffic from the facility or related operations, and to consult with the Coast Guard and Army Corps of Engineers on such sitings.
- 41. To establish a basis for redevelopment of portions of the port for the purpose of correcting land use blight, where necessary to promote public health, safety, and welfare, through the combined efforts of private enterprise and local government agencies.
- 42. To pursue programs for the safe, feasible and expeditious disposal of solid waste, including recycling of portions thereof.

- 43. To determine the feasibility of recycling waste water for fire control and other operational purposes.
- 44. To plan for safe and adequate access of fire-fighting and rescue vehicles with at least two directions of ingress and egress to structures and sites within the Port.
- 45. To limit the growth of hazardous types of industries.
- 46. To utilize fire safety factors as major criteria in Port development.
- 47. To buffer urban uses from routes designated for transportation of dangerous fluids, chemicals, explosives, or other hazardous materials.
- 48. To plan, design and construct new or expanded tanker terminals to minimize oil spilled and risks of vessel collision, to provide ready access to effective oil spill containment and recovery equipment, and to provide onshore deballasting facilities, where feasible.
- 49. To evaluate the feasibility of installing emergency phones along portions of Long Beach Freeway and at terminals within the Harbor District.
- 50. To determine critical routes of evacuation, and shelter throughout the Port area in case of major disaster.
- 51. To augment the existing system of communication for decision makers in case of emergency, as may be determined to be necessary by a feasibility study.
- 52. To involve Port Security, the Port Safety Officer, and the Police Department in project review at the planning stage to reduce and prevent crime in the Port.
- 53. To incorporate various tools and criteria for crime prevention in Port planning, including, but not limited to, improved street lighting, pedestrian path illumination, demolition of hazardous, condemned, and abandoned structures, promotion of high activity levels in centralized public areas, control of parking areas, especially night parking, and separation of vehicular, pedestrian and bicycle routes, where feasible.

#### Management

54. To use safety precautions as one means of reducing and preventing blight and deterioration.

- 55. To protect existing land uses from the intrusion of safety hazards.
- 56. To reduce public exposure to safety hazards.
- 57. To reduce the potential adverse economic, environmental and social loss which could result from a major disaster.
- 58. To assure continued economic stability and growth while minimizing potential safety hazards.
- 59. To protect people from possible personal loss resulting from disaster events.
- 60. To assure the preservation of public and private property in the Port.
- 61. To continue to provide the maximum feasible level of public safety protection services.
- 62. To continue coordinating employee safety measures throughout the Port.
- 63. To adopt improved methods of insuring safety and security in the Port.
- 64. To update the Port Emergency Plan.
- 65. To incorporate new technology for public safety in the Port.
- 66. To maintain reliable communication within the Port and between the Port and other operatives for purposes of security and emergency response.
- 67. To effectively utilize natural or man-made features such as landscaping for increased public protection from potential hazards.
- 68. To maintain an integrated and effective organization component to combat and minimize the effects of various emergency occurrences, such as massive oil spills in and about the Port.
- 69. To encourage the understanding of powerlines where feasible to reduce the risks of powerlines falling from suspended locations in case of an earthquake.
- 70. To encourage and require developments or transportation modes which handle oil, gas, petroleum products, or other hazardous substances to provide protection in terms of effective containment and cleanup facilities and procedures for accidental or operational spills.

- 71. To periodically reassess the fire station layout and fire boat requirements in the Port with respect to development and operations and to determine whether new or relocated facilities or equipment may be required.
- 72. To provide personnel and equipment as necessary to maintain security and crime prevention operations within the Port with the cooperation of other pertinent agencies such as the Fire, Police, Emergency Services, and Public Service Departments of the City, the Highway Patrol, and the Coast Guard.
- 73. To pursue sources of support and fundings for various risk management activities and programs.

#### Enforcement

- 74. To obtain vital services, supplies, equipment and such other properties found lacking and needed for the protection of the life and property of the people who visit or utilize the Port, and to insure that adequate funding can be obtained to cover the value of such protective devices.
- 75. To facilitate the requisition and enlistment into emergency services of any Port or City officer or employee, and to command the aid of as many citizens as necessary, consistent with the privileges, benefits, and immunities as provided by local, state and federal laws for such duties.
- 76. To assure continuity of safety measures for the protection of life and property.
- 77. To assure safe access to all non-restricted areas of the Port for the general public, including bicycle access from the City of Long Beach, where feasible.
- 78. To enforce and facilitate enforcement of City and Port regulations.
- 79. To coordinate enforcement efforts with other pertinent agencies as required.
- 80. To provide assistance in traffic control and crime prevention.
- 81. To enforce and facilitate the enforcement of controls and ordinances regulating waste discharge from vessels in the Harbor area.

- 82. To inspect construction sites and enforce codes and standards with regard to construction hazards.
- 83. To inspect new and expanded projects in the Port in order to enforce, where necessary, safety regulations governing structural stability, fire access, occupational and operational hazards.
- 84. To require periodic training and mobilization exercises for personnel and equipment involved in the Emergency Organization of the Port.
- 85. To assure that penalties and fines for pertinent violations are assessed as required by codes and regulations governing such actions.
- 86. To facilitate the conformance with and enforcement of all applicable air quality standards for new or expanded Port facilities, especially facilities for the handling and storage of petroleum and petrochemical products.
- 87. To minimize the need for waste water discharges and entrainment in Port facilities.
- 88. To inspect vessels and enforce their compliance with codes, regulations and standards governing safety, especially traffic safety, handling of hazardous cargoes, and spills of various materials.
- 89. To supervise the inspection of loss and damage to life and property, the determination of responsibilities and liabilities for these, the assessment of value for purposes of insurance and compensation, and the collection and/or dispersal of funds to cover equitable compensation.

### Section 3 PHASES

The Risk Management Study is anticipated to be pursued over several years with the aim of drafting and implementing a plan for risk management in the Port of Long Beach. The development of the plan will occur in essentially three phases: Information, Planning and Administration.

The product of the Information phase will be a report or series of reports identifying risks in the Port including an inventory and assessemnt of hazards; current standards and regulations on control of hazards and authorities and jurisdictions over hazards in the Port.

The product of the Planning Phase will be one or more reports representing the Risk Management Plan, including a framework of criteria for hazard evaluation, establishing risk priorities, and defining strategies for development which will minimize risks from hazards.

The product of the Administration phase will be one or more drafts of proposed codes, standards, guidelines and procedures for implementation of the Risk Management Plan through legislation, administration, and enforcement consistent with the policies of the Coastal Act.

### Section 4 PHASE I INCREMENTS

Phase I has been subdivided into three increments which focus upon particular activities or concerns and are geared to the time and budget constraints dictated by the CEIP grant.

The first increment is a hazardous material inventory (HMI) concerned with the identification, measurement and documentation of existing and potential hazards in the Port.

The second increment involves public and agency participation (PAP) and is concerned with review and discussion of concerns and inventory data with Coastal Commission Staff and consultants, other agencies (i.e. Coast Guard, Fire Department, etc) and the public through meetings, workshops, hearings and tours.

The third increment will incorporate feedback into the final Phase I report. This increment will include revisions, extensions, and comments, and distribution of the final Phase I report.

**PRODUCTS** 

### CHAPTER 3 PRODUCTS

### Section 1 HAZARDOUS MATERIAL INVENTORY OVERVIEW

The focus of the following report will be an inventory of hazardous materials in the Port. The objectives of the inventory are:

- To identify, measure, and document existing and potential hazards in the Port of Long Beach.
- To report on the above findings and present conclusions and recommendations.

The inventory treats four categories of Port facilities and plans and a variety of elements of each, including: waterfront facilities, supporting logistics facilities, transportation modes, and existing contingency plans. In the course of preparing for the inventory it became apparent that particular categories and elements of the study would require certain fields of expertise available among the Port Staff. Subsequently, a task force was organized which was composed of members of pertinent divisions to conduct the inventory. The original categories agreed to by the Port and the Coastal Commission Staff were not sufficiently differerentiated to facilitate the appropriate division of labor. A new set of categories of general task assignments emerged which embodied the original work program and were more suitable to the tasks.

The general task assignments included:

- Terminal/water approach
- Transportation/storage Inventory
- Vessel Inventory
- Waterfront Facility Inventory
- Property Status Inventory
- Interagency Coordination
- Terminal Maintenance Program
- Terminal Safety Provisions

The following text has been subdivided according to the foregoing categories. Each category contains compiled or tabulated information related to its principal subject and is accompanied by a brief explanation of the scope and nature of that information for purposes of clarification. In the light of extensive data which

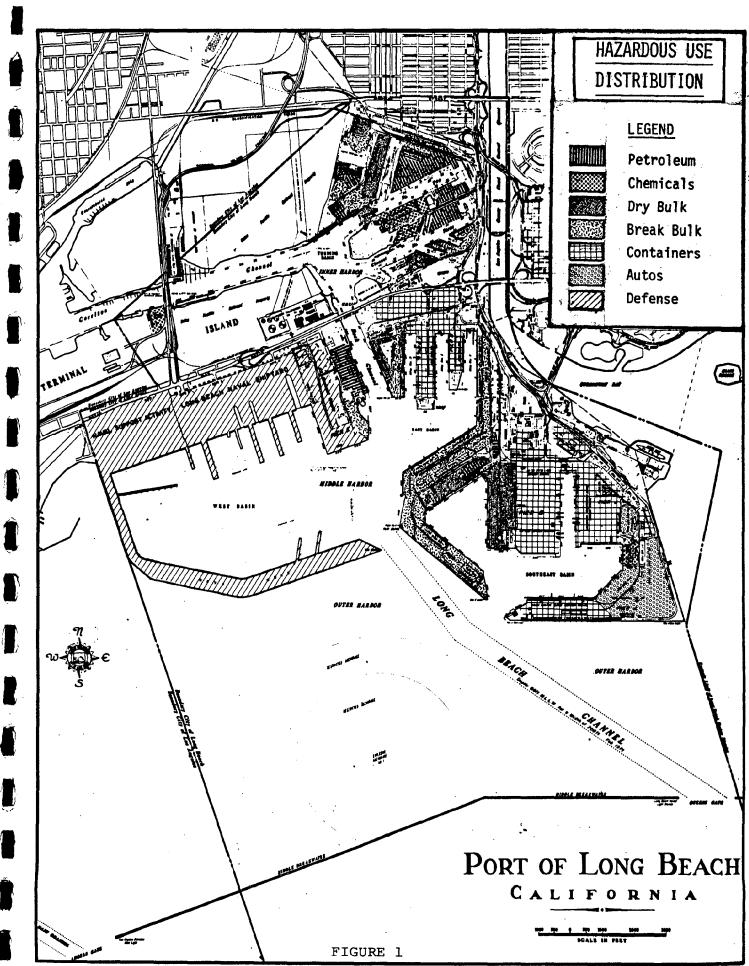
exists on the foregoing categories it has been necessary to qualify and summarize in certain instances in the interest of completing the survey within a reasonable time frame. Greater emphasis is thus placed in this survey on identifying and illustrating hazards and safety provisions than on precise quantification.

A set of broad categories of cargo types has been indentified in order to facilitate the preparation of the hazardous material inventory in a manageable and systematic manner and to reduce confusion over the large number of commodities handled in the Port. These are as follows:

- Petroleum and Bunkers
- Chemicals
- Dry Bulk
- Break Bulk
- Conatiners
- Automobiles
- Defense

These categories represent bulk uses in the Port which require special facilities, equipment, locations or operations subject to permits, leases or other enablements issued by the Harbor Department. The distribution of these uses in the Port is illustrated in Figure 1. The categories will be referred to throughout the subsequent text as appropriate to each assignment area.

Tabulated data has been updated through fiscal 1977-78 for the most part. However in some cases available data predated this period by one year. This data is adequate for illustration. It is intended that the data shall be updated on a periodic basis when the Risk Management Plan is implemented, and as the need arises.



# Section 2 TERMINAL WATER APPROACH

Vessel traffic entering and leaving the Port may encounter potential hazards from natural or manmade sources. Among the principle recurring natural phenomena which must be accounted for are weather and tidal conditions.

## Wind

Prevailing winds at Long Beach Harbor are from the west and southwest as shown in Figure 2. Strong winds from the northeast called "Santa Anas" usually occur in the fall or early winter and occasionally bring warm weather from the high desert. The occasional strong winds from the south are of significance to the harbor because of the strong wave action such storms can generate. The area is generally quite calm, with an average annual wind speed of 9.8 kilometers per hour (6.1 mph). This condition enhances a balmy climate and peaceful harbor, but poorly disperses the air contaminants generated in the South Coast Air Basin.

Differential heating and cooling of the land and ocean causes breezes which blow inland during the day and seaward at night. Extreme conditions, however, are rare.

# Hydrography

Normally there are two high and two low tides in a 25-hour period in the Port of Long Beach. On certain days of each month, however, diurnal tides are observed (only one high and one low tide per day). The highest tide observed since 1924 was 2.3 meters (7.54 feet) above mean low low water (MLLW), while the lowest tide was 0.9 meters (2.56 feet) below MLLW. The mean high water is 1.4 meters (4.71 feet) above MLLW, while the mean low water is 0.3 meters (0.95 feet) above MLLW.

The U.S. Army Corps of Engineers Waterways Experiment Station in Vicksburg, Mississippi maintains a physical model of the harbor complex for purposes of testing tidal, wave, circulation and flushing activities with respect to new and/or existing developments in the Port. Detailed studies produced from this model and other mathematical models are made available to the Port by the Corps.

Waves from the west do not have a major effect on the Port because Point Fermin provides protection. Similarly, Santa Catalina Island and, to a lesser extent, San Clemente Island provide some protection from waves originating in the southerly to westerly directions. Finally, the breakwater outside the present Port facilities attentuates waves that do approach. The breakwater is generally effective for short period waves, but relatively uneffective for long period waves.

#### Floods

There is little flooding danger to the Port. Studies indicate that the Port would not be subject to flooding from a hundred year storm. Port land areas may be subject to minor flooding due to localized accumulations from rain. The storm drain system in the Port handles this runoff, and is designed to handle a ten-year storm.

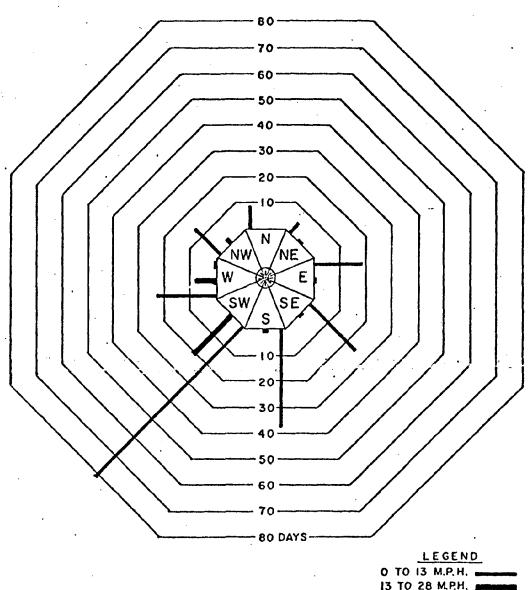
## Water Depths

The water depths in the terminal approaches of Port of Long Beach range from 18.9 meters (62 feet) in the Main Channel, Middle Harbor Basin, Back Channel Two, Channel Three and westerly portion of Cerritos Channel (See Figure 3). Adjacent to berths water depths range from 18.9 meters (62 feet) to 11 meters (36 feet). The deep berths and channels in the Port can accommodate vessels in the 50,000 to 200,000 DWT class with drafts not exceeding 58 feet. This class includes large crude oil carriers, and ore bulk carriers. Water depths of 45 feet can accommodate large container ships, ro-ro vessels and Lighter-Aboard-Ships (LASH) vessels of the 20,000 to 50,000 DWT class with drafts not exceeding 34 feet. general cargo and break bulk cargo ships of the 15,000 to 20,000 DWT can be accommodated at Berths having a water depth of 36 to 40 feet.

### Navigational Aids

In order to facilitate navigation within the Long Beach breakwater the Port has stationed navigational aids (N.A.) along the various channels and basins in the Port. These aids include beacon lights, horns and/or Morse Code generators (See Figure 4). N.A.'s are located on either side of Queens Gate, at the tips of Pier J and Pier A, along the Main Channel, at the entrances to the Southeast Basin, the Middle Harbor, the Back Channel. N.A.'s are also placed at points along the Navy Mole, at Slip 3, and on the Harbor Administration Building roof. New N.A.'s are proposed to facilitate ships traversing the Back Channel, thereby improving navigational safety.

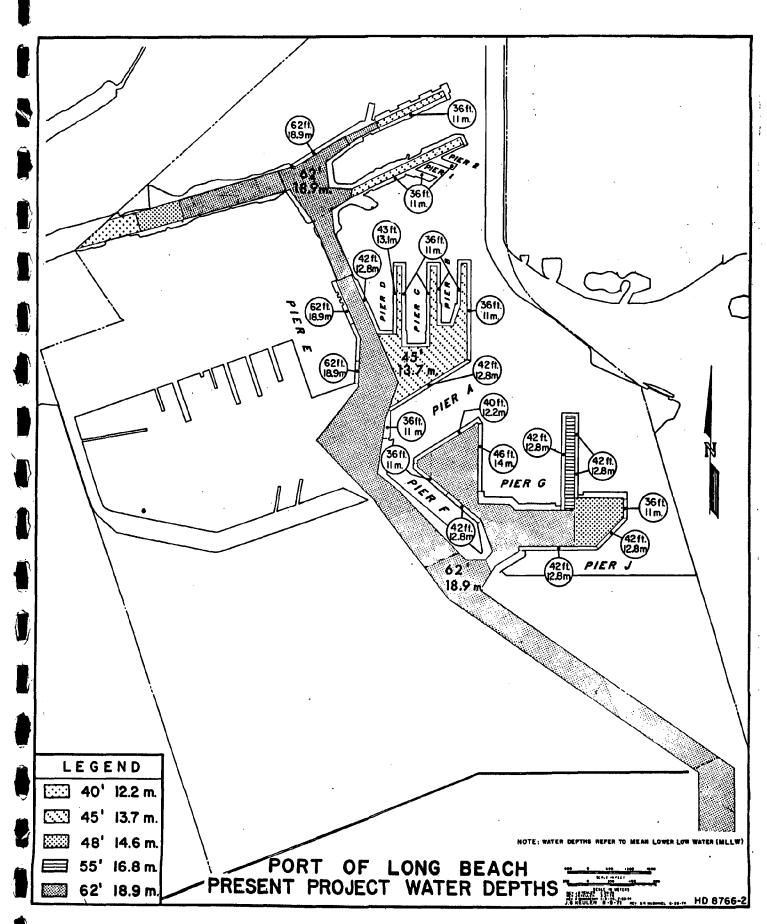
The Port Pilot Station, shown in Figure 4, contains a radar tower and radar monitoring equipment capable of tracking vessels in the vicinity of Port waters. The Pilot Station also maintains a radio monitoring on Channels 16, 12 and 74. The latter represent working frequencies for piloting ships within the Port. A more extensive discussion of Pilot Services is contained in the subsequent section on Inter-Agency Coordination - San Pedro Bay Navigational Operating Procedures/Regulations and Practices. Appendix A also contains pertinent details.

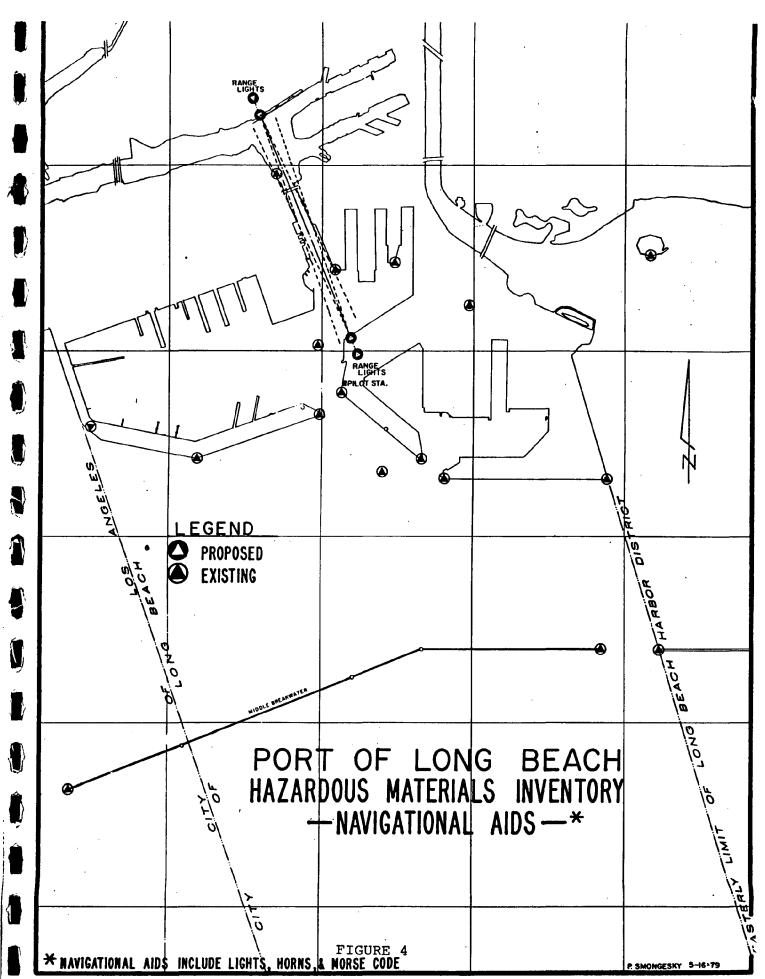


13 TO 28 M.P.H. OVER 28 M.P.H. I

# NOTE:

DISTRIBUTION OF WIND SPEED AND DIRECTION IN DAYS COMPILED FROM CLIMATOLOGICAL RECORDS RECORDED BY THE PORT OF LONG BEACH OVER A PERIOD OF THREE CONSECUTIVE YEARS ENDING 12-31-78.





# Section 3 TRANSPORTATION AND STORAGE INVENTORY

This section of the HMI will identify associated inland transportation modes and storage facilities.

## Transportation

The Port is served by an intricate inland transportation network consisting of railroads, highways and pipelines, all of which may transport hazardous materials into or out of the Harbor District. Three transcontinental railroads (Sante Fe, Southern Pacific and Union Pacific) either directly or indirectly connect with the Port-owned Harbor Belt Line Railroad. This Port rail system comprises approximately 60 miles of rail trackage, including access to nearly all berths, warehouses, storage areas and terminals. Figure 5 indicates the rail system adjacent to and located within the Port of Long Beach. The circles indicate the locations of the railroad switching, storage and classification yards and their estimated rail car capacity.

Major highways, freeways and interstates linking the Port with inland markets include the Long Beach Freeway (State Route 7), the Terminal Island Freeway (State Route 47), and the Harbor Freeway (State Route 8). These highways in turn intersect interstate Highways 5, 10, 91 and 405.

Figure 6 indicates the primary, secondary and tertiary roadway system in the Harbor District and how these roads relate to various Port terminals.

There are two general classes of traffic in the Port, that passing through the area and that originating or terminating at Port facilities. The through traffic is generally east/west, consisting principally of passenger vehicles on Ocean Boulevard which travels to and from the U.S. Naval installations on Terminal Island. A smaller portion of the east/west traffic involves interharbor movements between the Ports of Los Angeles and Long Beach and San Pedro. Most north/south terminal traffic moves via the Long Beach Freeway, Pico Avenue, and the Terminal Island Truck traffic on the Long Beach and Terminal Island Freeways amounts to 20% of total vehicle movements on these Truck traffic on secondary and teritary roadways arterials. could exceed these percentages in areas adjacent to heavy terminal activity. Figures 7 and 8 indicate the 24-hour outbound traffic density and hourly outbound traffic capacity respectively for the base year 1973. Port traffic has not substantially changed since this study was conducted.

There is an extensive network of pipelines throughout the Port. These pipelines serve oil production facilities, petroleum and chemical cargo terminals and vessel bunkering.

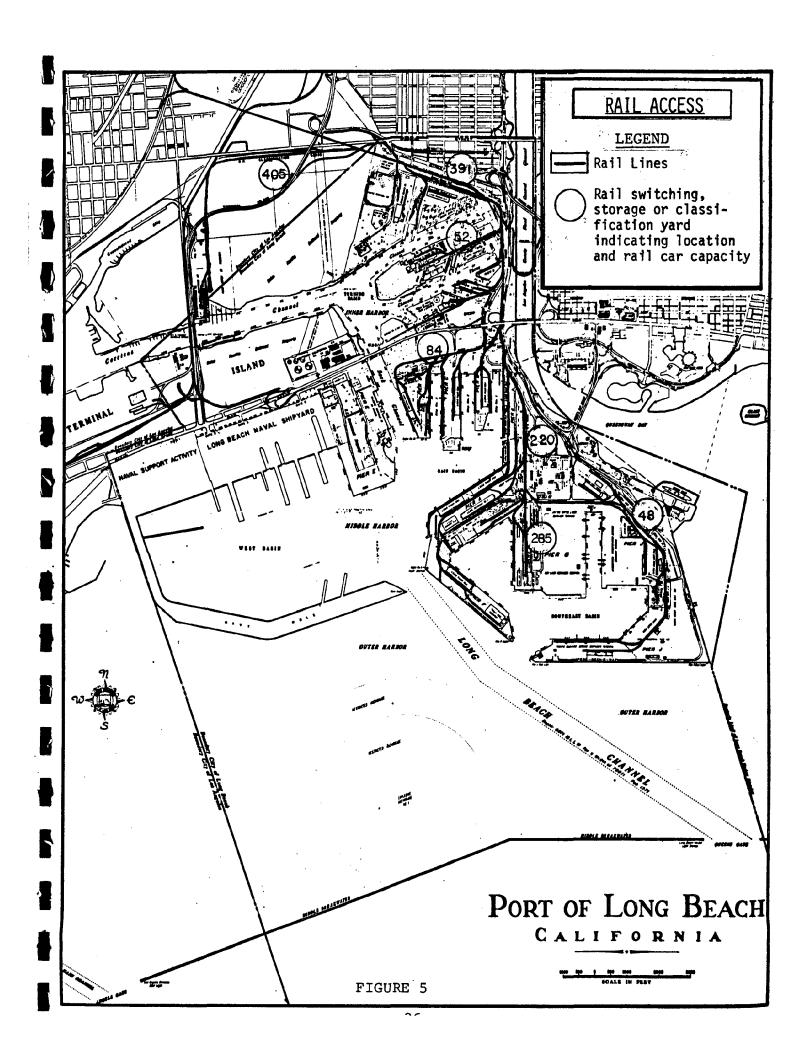
Oil production lines connect oil wells with storage and processing facilities located within and adjacent to the Port. These pipelines interlace nearly every major parcel of land in the Port District. Major crude oil and petroleum product lines serve to link marine petroleum terminals with inland tank farms and refineries. Table 2 indicates the number size, and capacity of pipelines serving various marine petroleum terminals. In addition, seventeen miles of bunker fuel pipelines utilized for ship refueling are installed along berths located in the Middle and Southeast Harbor Planning Districts. There are 55 fueling stations with a capability of delivering 3,500 bbls/hr to 6,000 bbls/hr depending on the berth location. The bunkering system is illustrated on Figure 9.

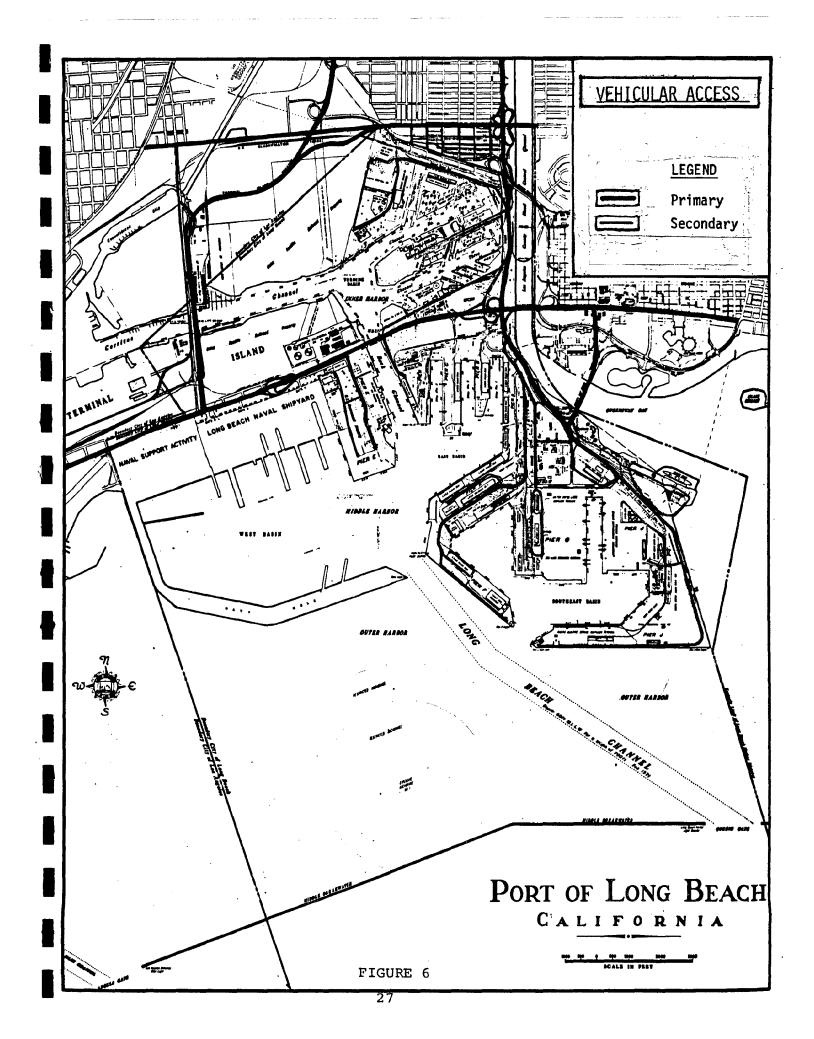
Table 1-1 to Table 1-9 indicates the Port facilities handling hazardous cargoes by planning district, the type of hazardous commodity and the mode of transport into and out of the harbor.

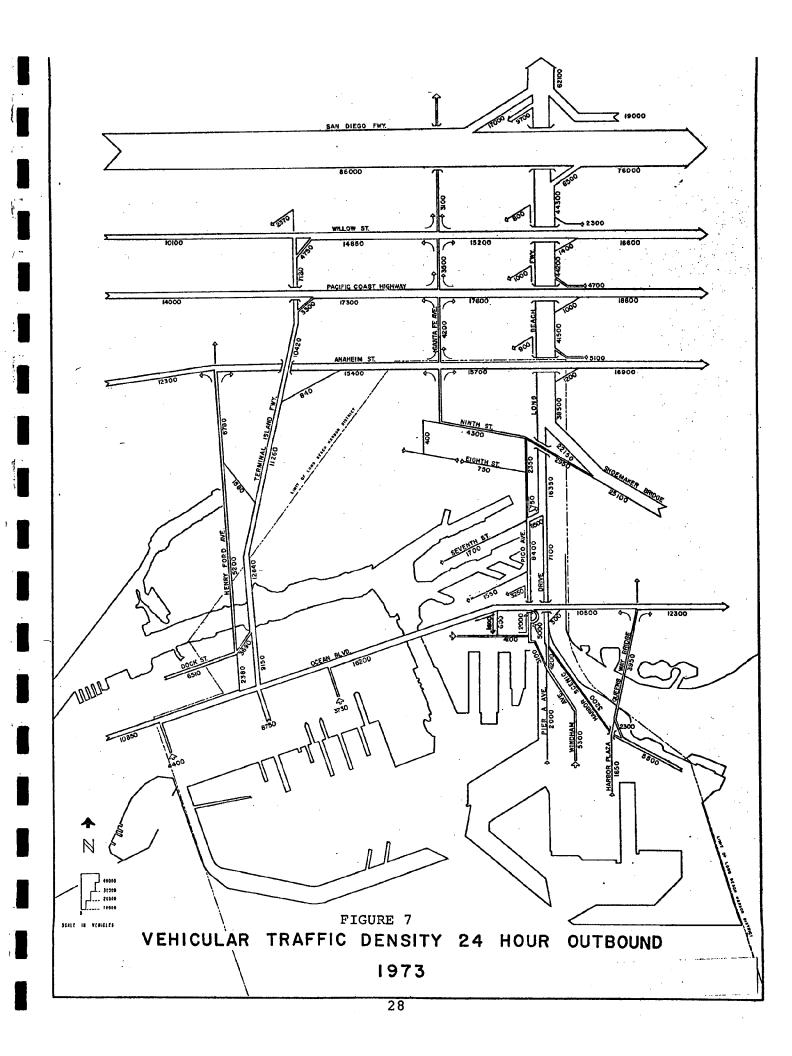
### Storage

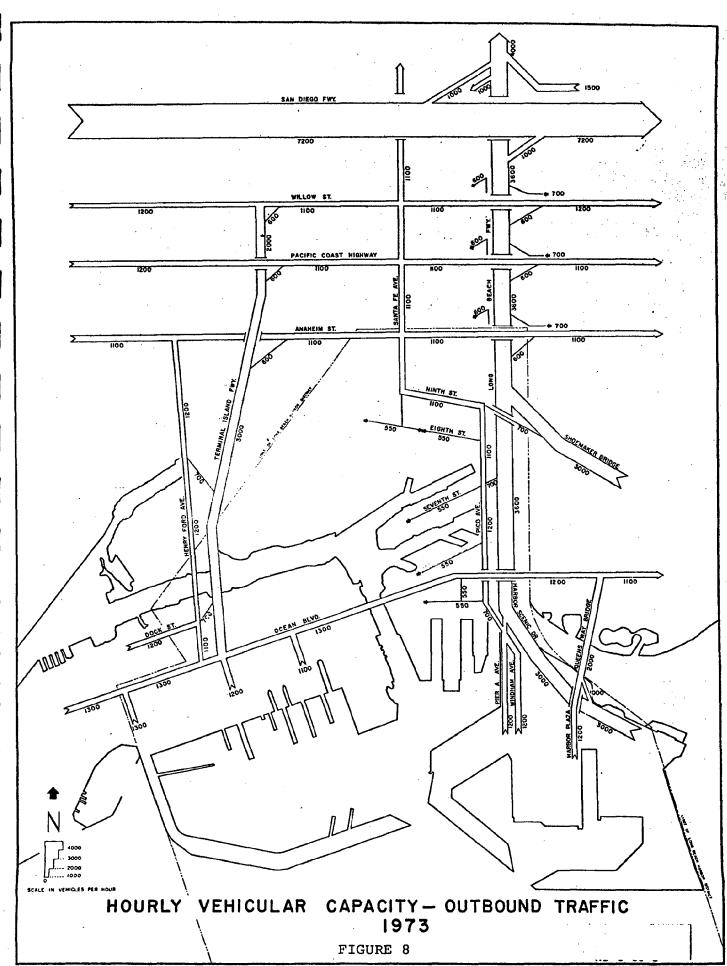
The storage of Hazardous Marterials can take several forms however, the principal method of storage in the Port is by tank. In general, tankage in the Port, accounts for the storage of crude oil, solvents, gasoline, diesel, fuel oil, caustic soda, naptha and numerous other chemicals and additives used in various manufacturing and commercial processes. Storage tanks are either above or underground and are located in nearly every area of the Port. Tables 3-1 through 3-10 indicate the operator, location, types of tank storage and commodity, and number and capacity.

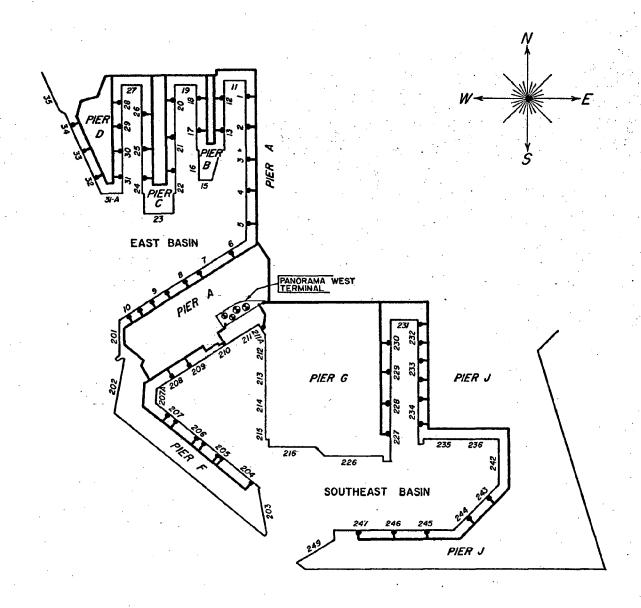
Other methods of storage include silos, containers and open storage piles. Table 4 generally shows the location of facilities with these types of storage facilities.











# Port of Long Beach Bunkering System - 1975

FIGURE 9

P. SMONGESKY 2-1-73

HAZARDOUS MATERIAL TRANSPORTATION BY INLAND TRANSPORTATION MODE

NORTH HARBOR DISTRICT					
			MC	MODE OF TRANSPORT	
OPERATOR	LOCATION	HAZARDOUS COMMODITY	RAIL	TRUCK	PIPELINE
Stan's Van	1141 Caspian	Çasoline & Diesel		×	•
L.B. Iron	2100 W. Anaheim	Gasoline		X	
Servatron	1106 Caspian	Gasoline		X	
Am. Wholesale Hrd.	1212 Caspian	LPG		X	
Trans - Harbor Ter.	1130 Santa Fe	Gasoline & Diesel		×	
Sun Van Calif.	1520 W. 11th St.	Gasoline		X	
Cable Car Co.	1326 W. 12th St.	Diese1		×	
Lomita Gas	1348 W. 9th St.	DAT		×	
Australian Cont.	1540 W. 9th St.	Gasoline		X	
L.B. Neon	1812 W. 9th St.	Gasoline		: *	

TABLE 1-1

HAZARDOUS MATERIAL TRANSPORTATION BY INLAND TRANSPORTATION MODE

WEST HARBOR DISTRICT					
			MC	MODE OF TRANSPORT	
OPERATOR	LOCATION	HAZARDOUS COMMODITY	RAIL	TRUCK	PIPELINE
Calada Material	3501 Dock St.	Gasoline		×	
County Salvage Co.	3861 Seaside Blvd.	LPG		X	
Dow Chemical	3601 Dock St.	Chemicals	X	X	
	·			•	
		٠			

TABLE 1-2

HAZARDOUS MATERIAL TRANSPORTATION BY INLAND TRANSPORTATION MODE

NORTHWEST HARBOR DISTRICT	RICT	-			
			Ж	MODE OF TRANSPORT	
OPERATOR	LOCATION	HAZARDOUS COMMODITY	RAIL	TRUCK	PIPELINE
South Wind Chevron Service Station	700 Henry Ford	Gasoline & Diesel		×	·
Port Terminals	700 Henry Ford	Gasoline		X	
Champlin	204 Henry Ford	Crude	•		×
S.C. Edison	2665 W. Seaside	Gasoline, Crude, LPG		×	×
	·				

TABLE 1-3

HAZARDOUS MATERIAL TRANSPORTATION BY INLAND TRANSPORTATION MODE

NORHTEAST HARBOR DISTRICT	rrict			: •	
			Ж	MODE OF TRANSPORT	
OPERATOR	LOCATION	HAZARDOUS	RAIL	TRUCK	PIPELINE
Long Beach Harbor Department	100 N. Alpine	Gasoline & Diesel		×	
Weyerhauser	1930 Edison	Gasoline		×	
Fremont Forest Prod.	1933 Edison	Gasoline		×	
Техасо	2050 Edison	Crude and Refined Products			×
ARCO	1300 W. 8th St.	Crude and Refined Products			×
Powerine Oil	1405 W. 7th St.	Crude and Refined Products			×
ARCO	1400 W. 7th St.	Crude and Refined Products			×
Cal. Shipbuilding	1601 Water St.	Gasoline & Diesel		×	

TABLE 1-4

HAZARDOUS MATERIAL TRANSPORTATION BY INLAND TRANSPORTATION MODE

NORTHEAST HARBOR DISTRICT	TRICT -2					٠
			MO	MODE OF TRANSPORT	·	
OPERATOR	LOCATION	HAZARDOUS	RAIL	TRUCK	PIPELINE	
Connolly Pacific	1925 Water St.	Gasoline & Diesel		x		·
Omin. Eng. Service	1409 W. 7th St.	Gasoline		×		
Connolly Pacific	1512 W. 7th St.	Gasoline & Diesel		×	,	
W. W. Lynch	1500 W. 8th St.	Gasoline, LGP, Diesel	·	X		· · · · · · · · · · · · · · · · · · ·
Warren Trucking	1600 W. 8th St.	Gasoline, LPG, Diesel		×		
National Gypsum	1850 W. 8th St.	LPG, Lube Oil		x	·	
LBOD	2086 W. 8th St.	Crude		-	X -	
LBOD	2083 W. 8th St.	Crude			×	
LBTC	1920 Lugger	Refined Petro. Products		×		·   <del></del>
Proctor & Gamble	1601 W. 7th St.	Gasoline, Hydrogen, LPG	×	×	·	<del> </del>

TABLE 1-5

HAZARDOUS MATERL L TRANSPORTATION BY INLAND TRANSPORTATION MODE

MIDDLE HARBOR DISTRICT	CT				
			MC	MODE OF TRANSPORT	
OPERATOR	LOCATION	HAZARDOUS COMMODITY	RAIL	TRUCK	PIPELINE
Grescent Wharf	1660 El Embarcedro	Gasoline		×	
Pool Co.	120 S. Pico	Diesel		×	
Marine Terminals	920 Pier A Avenue	Gasoline	•	×	
Crown Zellerbach	943 Pier A Avenue	Gasoline		×	
ARC0	300 Pier E Avenue	Gasoline		-	×
National Molasses	983 Pier A Avenue	Crude and Refined Products		×	×
Universal Marine	692 Pier E Avenue	Diesel		×	
Kobe, Inc.	1120 W. Seaside Blvd.	Gasoline ∴∷-		×	
Baker Commodities	520 Pier D Avenue	Gasoline		×	

TABLE 1-6

HAZARDOUS MATERIAL TRANSPORTATION BY INLAND TRANSPORTATION MODE

SOUTHEAST HARBOR DISTRICT	rrict				
			DM	MODE OF TRANSPORT	
OPERATOR	LOCATION	HAZARDOUS COMMODITY	RAIL	TRUCK	PIPELINE
Koppel Grain	1130 Panorama Dr.	Diesel & Grain	X	X	
Exxon Co.	1200 Panorama Dr.	Gasoline, Bunkers, Diesel		×	×
Ocean Salt Co.	1250 Panorama Dr.	Diesel		×	
Harbor Banana	1420 Panorama Dr.	Gasoline		×	
Metropolitan Stevedore Co.	1045 Pier G Ave.	Gasoline & LPG		×	
Thums	1310 Pier G Avenue	Gasoline		×	
Thums	1115 Pier J Avenue	Crude			X
Toyota	1245 Pier J Avenue	Gasoline		X	
Queen Mary Emergency Flant	1256 Pier J Avenue	Lube 011		×	

TABLE 1-7

HAZARDOUS MATERIAL TRANSPORTATION BY INLAND TRANSPORTATION MODE

SOUTHEAST HARBOR DISTRICT	TRICT -2	•			
•			MC	MODE OF TRANSPORT	
OPERATOR	LOCATION	HAZARDOUS COMMODITY	RAIL	TRUCK	PIPELINE
ITS	1281 Pier J Avenue	Gasoline, Diesel		×	
National Molasses Co.	1395 Pier J Avenue	Chemicals	×	×	
Chevron Service Station	990 Queens Highway	Gasoline			×
Powerine Oil Co.	865 Van Camp St.	Crude			×
Powerine Oil Co.	636 Windham	Crude			×
LBOD	705 Windhan	Gasoline & Diesel		×	
Powerine Oil Co.	910 Windham	Gasoline & Diesel		x	
Powerine Oil Co.	945 Windham	Crude			х
U.S. Lines	980 Windham	Gasoline		X	
		į			

TABLE 1-8

HAZARDOUS MATEFIAL TRANSPORTATION BY INLAND TRANSPORTATION MODE

PIPELINE × × MODE OF TRANSPORT TRUCK × × RAIL Gasoline, Diesel, Propane HAZARDOUS COMMODITY Gasoline 699 S. Harbor Scenic Crude Way Diesel Crude Crude 1040 Harbor Scenic Drive 387 Harbor Scenic Way 988 Harbor Scenic Drive 669 Panorama Dr. LOCATION Berth 216 SOUTHEAST HARBOR DISTRICT -3 Powerine Oil Co. OPERATOR Sea Land Chevron Chevron Pasha Thums

TABLE 1-9

	MAJOR CRUDE	MAJOR CRUDE OIL AND PRODUCT PIPELINES	PELINES	
TERMINAL OPERATOR	LOCATION	NUMBER/ SIZE	PUMPING CAPACITY	LOCATION AND DISTANCE TO INLAND STORAGE
ARCO #2	Berths 76-79	1-10" 1-12" 1-14"	5,000 bbls/hr	Carson - 3.5 mi.
ARCO #3	1405 W. 7th St.	2-14" 1-8"	10,000 bbls/hr	To Terminal #2
ARCO	Berth 118	1–24" 1–14"	25,000 bbls/hr	To Terminal #2 2.5 miles
Texaco	Berths 84-87	1-24" 1-16" 1-14"	20,000 bbls/hr 10,000 bbls/hr 8,000 bbls/hr	Wilmington 2.0 Miles
Powerine	Berth 73	1-6" 1-8"	750 bbls/hr 1300 bbls/hr	Santa Fe Springs 26 miles
Long Beach Terminal Company	Berth 83	1-8"	4000 bbls/hr	Via Texaco
Exxon	Berth 209	See Figure 9 (Bunk	(Bunkering)	

TABLE - 2

TABLE 3-1

HAZARDOUS MITERIAL STORAGE (TANKAGE)

NORTH HARBOR DISTRICT					
OPERATOR	LOCATION	TYPE OF STORAGE	COMMODITY STORED	NUMBER/ CAPACITY	SPECIAL DESIGN SAFETY FEATURES
Stan's Van	1141 Caspian	U.G. Tank U.G. Tank	Gasoline Diesel 2 Tanks total	1 - 3,000 gal. 1 - 4,000 gal. 7,000 gal.	
L.B. Iron	2100 W. Anaheim	U.G. Tank	Gasoline	1 - 5,000 gal.	
Servatron	1106 Caspian	U.G. Tank	Gasoline 2 Tanks total 22,000 gal.	2 - 11,000 gal. 22,000 gal.	
Am. Wholesale Hrd.	1212 Caspian	A.C. Tank	Liquid Petro. Gas	1 - 1150gal.	
Trans - Harbor Ter.	1130 Santa Fe.	U.G. Tank U.G. Tank	Gasoline Diesel 2 Tanks total	1 - 5,000 gal. 1 - 5,000 gal. 10,000 gal.	•
Sun Van Calif.	1520 W. 11th St.	U.G. Tank	Gasoline	1 - 1,000 gal.	
Cable Car Co.	1326 W. 12th St.	U.G. Tank	Diesel 2 Tanks total	2 - 8,500 gal ea	
Lomita Gas	1348 W. 9th St.	A.G. Tank	LPG	1 - 1,150 gal.	
Australian Cont.	1540 W. 9th St.	U.G. Tank	Gasoline .	1 - 10,000 gal.	
L.B. Neon	1812 W. 9th St.	U.G. Tank	Gasoline	1 - 10,000 gal.	
Source: Long Beach Fire Department May 1979	re Department				

HAZARDOUS M.TERIAL STORAGE (TANKAGE)

WEST HARBOR DISTRICT					
OPERATOR	LOCATION	TYPE OF STORAGE	COMMODITY	NUMBER/ CAPACITY	SPECIAL DESIGN SAFETY FEATURES
Calada Material	3501 Dock St.	U.G. Tank	Gasoline	l - 1,000 gal,	
County Salvage Co.	3861 Seaside Blvd.	A.G. Tank	LPG	.1500.gal.	
Dow Chemical	3601 Dock St.	Fixed Roof Fixed Roof Fixed Roof	Chemicals Chemicals Chemicals		
			Chemicals Chemiclas Chemicals Chemicals		
		A.G. Fixed Roof Tank A.G. Fixed Roof Tank A.G. Fixed Roof Tank A.G. Fixed Roof Tank	Chemicals Chemicals Chemicals Chemicals 19 Tanks total		
		·			
	•				
		·			
U.G Underground A.G Above Ground	gal. = gallons bbl. = barrels 1 bbl = 42 gallons	LPG - Liquified Petro Fixed = Fixed Roof Floating = Floating 7	Gas. Tanks	·	

TABLE 3-2

HAZARDOUS MATERIAL STORAGE (TANKAGE)

NORTHWEST HARBOR DISTRICT	RICT				
OPERATOR	LOCATION	TYPE OF STORAGE	COMMODITY STORED	NUMBER/ CAPACITY	SPECIAL DESIGN SAFETY FEATURES
South Wind Chevron Service Station	700 Henry Ford	U.G. Tanks	Diesel Gasoline 3 Tanks total	1 - 8,800 gals. 2 - 8,800 gals. 26,400 gals.	
Port Terminals	700 Henry Ford	A.G. Fixed Roof Tank	Gasoline	1 - 5,000 gals.	
Champlin	204 Henry Ford	A.G. Fixed Roof Tank	Crude	23 - 53,200 bbls.	
S. C. Edison	2665 W. Seaside	U.G. Tank A.G. Fixed Roof Tank A.G. Fixed Roof Tank	Gasoline LPG Crude 8 Tanks total	1 - 24 bb1 1 - 12 bb1 6 - 1,476,000 bb1 1,476,036 bb1s.	

TABLE 33-3

HAZARDOUS MATERIAL STORAGE (TANKAGE)

NORTHEAST HARBOR DISTRICT	RICT				
OPERATOR	LOCATION	TYPE OF STORAGE	COMMODITY STORED	NUMBER/ CAPACITY	SPECIAL DESIGN
Long Beach Harbor Department	100 N. Alpine	U.G. Tank U.G. Tank U.G. Tank	Diesel Gasoline Gasoline 3 Tanks total	1 - 2,000 gal. 1 - 4,000 gal. 1 - 850 gal. 6,850 Gallons	
Weyerhauser	1930 Edison	U.G. Tanks	Gasoline Gasoline 2 Tanks total	1 - 2,000 gal. 1 - 5,000 gal. 7,000 Gallons	
Fremont Forest Prod.	1933 Edison	U.G. Tank	Gasoline	1 - 2,000 gal.	
Техасо	2050 Edison	A.G. Fixed Roof Tank A.G. Floating Tank A.G. Fixed Roof Tank A.G. Fixed Roof Tank A.G. Fixed Roof Tank	Refined Prod. Refined Prod. Refined Prod. Refined Prod. Refined Prod. 6 Tanks total	2 - 34,000 bbl ea 1 - 34,000 bbl 1 - 76,000 bbl 1 - 53,000 bbl 1 - 14,000 bbl 245,000 bbl	
ARCO	1300 W. 8th St.	A.G. Fixed Roof Tank A.G. Floating Tanks	ed total	8 - 86,000 bbl 25- 1,930,000 2,016,000 bbl	
Powerine 011	1405 W. 7th St.	A.G. Floating anks A.G. Fixed Roo! Tank A.G. Fixed Roo! Tank A.G. Fixed Roo! Tank	Crude & Refined Petro. Prod. Crude & Refined Petro. Prod. Crude & Refined Petro Prod. Crude & Refined Petro Prod. Crude & Refined Petro. Prod. 9 Tanks total	2 - 43,000 bbl ea 3 - 94,000 bbl ea 2 - 67,000 bbl ea 2 - 35,000 bbl ea 572,000 bbbl	

TABLE 3-4

HAZARDOUS MATERIAL STORAGE (TANKAGE)

	SPECIAL DESIGN SAFETY FEATURES	b1 b1	gal. <u>gal</u> .	gal. gal.	89	11. 11.	gal. gal. gal.	8
	NUMBER/ CAPACITY	1 - 109,000 bbl 6 - 391,000 bbl 500,000 bbl	1 - 20,000 g 1 - 20,000 g 40,000 gal.	1 - 12,000 gal. 1 - 2,000 gal. 14,000 gal.	2 - 500 gal.	1 - 12,000 gal. 1 - 2,000 gal. 14,000 gal.	1 - 15,960 g 1 - 20,000 g 1 - 550 g 1 - 172 g 36,682 gal.	1 - 1,000 gal. 1 - 5,000 gal. 2 - 5,000 gal. 1 - 7,500 gal. 23,500 gal.
	COMMODITY STORED	Crude Crude 7 Tanks total	Gasoline Diesel 2 Tanks total	Diesel Gasoline 2 Tanks total	Gasoline 2 Tanks total	Diesel Gasoline 2 Tanks total	Gasoline Diesel LPG LPG 4 Tanks total	LPG Gasoline Diesel Diesel 5 Tanks total
	TYPE OF STORAGE	A.G. Floating Tank A.G. Fixed Tanit	U.G. Tanks U.G. Tanks	U.G. Tank U.G. Tank	U.G. Tank	U.G. Tank U.G. Tank	U.G. Tank U.G. Tank U.G. Tank U.G. Tank	A.G. Tank U.G. Tank U.G. Tank U.G. Tank
HCT (CONT) - 2	LOCATION	1400 W. 7th St.	1601 Water St.	1925 Water St.	1409 W. 7th St.	1512 W. 7th St.	1500 W. 8th St.	1600 W. 8th St.
NORTHEAST HARBOR DISTRICT (CONT)	OPERATOR	ARCO	Cal. Shipbuilding	Connolly Pacific	Omin. Eng. Service	Connolly Pacific	W. W. Lynch	Warren Trucking

TABLE 3-5

HAZARDOUS MA FERIAL STORAGE (TANKAGE)

NORTHEAST HARBOR DISTRICT (CONT)	RICT (CONT) - 3				•
OPERATOR	LOCATION	TYPE OF STORAGE	COMMODITY STORED	NUMBER/ CAPACITY	SPECIAL DESIGN SAFETY FEATURES
National Gypsum	1850 W. 8th St.	U.G. Tanks A.G. Tanks A.G. Tanks	Lube Oil LPG Class 2 4 Tanks total	2 - 16,000 gal. ea 1 - 1,100 gal. 1 - 25,000 gal. 58,100 gal.	
LBOD	2086 W. 8th St.	A.G. Fixed Tank A.G. Fixed Tank A.G. Fixed Tank	Crude Crude Crude 5 Tanks total	2 - 1,000 gal. ea 1 - 5,000 gal. 2 - 7,500 gal. 22,000 gal.	
<b>1.Вор</b>	2083 W. 8th St.	A.G. Fixed Tank A.G. Fixed Tank	Crude Crude 7 Tanks total	6 - 500 gal. ea 1 - 750 gal. 3,750 gal.	
LBTC	1920 Lugger	U.G. Tank U.G. Tank A.G. Tank	Diesel Sloptank Refined Products 4 Tanks total	1 - 238 bbl. 1 - 238 bbl. 2 - 109,000 bbl. ea 218,476 bbl.	
Proctor & Gamble Co.	1601 W. 7th St.	A.G. Tank U.G. Tank A.G. Tank A.G. Tank	LPG Gasoline Hydrogen Tolune	6 - 1,000 gal. ea 1 - 8,000 gal. ea 1 - 80,000 cu.ft. 1 - 20,000 gal.	

TABLE 3-6

HAZARDOUS MATERIAL STORAGE (TANKAGE)

MIDDLE HARBOR DISTRICT					
OPERATOR	LOCATION	TYPE OF STORAGE	COMMODITY	NUMBER/ CAPACITY	SPECIAL DESIGN SAFETY FEATURES
Crescent Wharf	1660 El Embarcadero	U.G. Tank	Gasoline	1 - 2,000 gal.	
Pool Co.	120 S. Pico	U.G. Tank	Diesel	1 - 5,000 gal.	
Marine Terminals	920 Pier A Avenue	U.G. Tank	Gasoline	3 - 27,500 gal. total	
Crown Zellerbach	943 Pier A Avenue	U.G. Tank	Gasoline	1 - 1,000 gal.	
ARCO	300 Pier E Avenue	A.G. Fixed Roo∄ Tank	Slop Tank 2 Tanks total	1 - 3,700 bbl. 1 - 900 bbl. 4,600 bbl.	
National Molasses	983 Pier A Avenue	A.G. Fixed Roof Tank A.G. Fixed Roof Tank A.G. Fixed Roof Tank	Crude Crude Crude 5 Tanks total	2 - 27,000 bbl ea 2 - 5,000 bbl ea 1 - 2,000 bbl 66,000 bbl.	
Universal Marine	692 Pier E Avenue	U.G. Tank	Diesel	1 - 12,000 gal.	
Kobe, Inc.	1120 W. Seaside Blvd.	U.G. Tank	Gasoline	1 - 5,000 gal.	
Baker Commodities	520 Pier D Ave.	U.G. Tank A.G. Tank	Gasoline	1 - 1,000 gal. 22 - 163,200 bbl.	
	·				

TABLE 3-7

HAZARDOUS MATERIAL STORAGE (TANKAGE)

SOUTHEAST HARBOR DISTRICT	RICT				•
OPERATOR	LOCATION	TYPE OF STORAGE	COMMODITY STORED	NUMBER/ CAPACITY	SPECIAL DESIGN SAFETY FEATURES
Koppel Grain	1130 Panorama Dr.	U.G. Tank Grain Elevator	Diesel Grains	1 - 1,000 gal. 2,225,000 bushels	20
Ехкоп Со.	1200 Panorama Dr.	U.G. Tank A.G. Fixed Roof Tank	Gasoline Bunkers	3 - 250 bbl total 2 - 135,000 bbl	
		A.G. Fixed Roof Tank A.G. Fixed Roof Tank	Diesel Lube Oil 14 Tanks total	ea 2 - 64,000 bbl ea 7 - 600 bbl ea 398,850 bbl§:	
Ocean Salt Co.	1250 Panorama Dr.	U.G. Tank	Diesel	1 - 550 gal	
Harbor Banana	1420 Panorama Dr.	U.G. Tank	Gasoline	1 - 8,000 gal,	
Metropolitan Stevedore Co.	1045 Pier G Ave.	U.G. Tank A.G. Tank	Gasoline LPG. 2 Tanks total	1 - 2,000 gal. 1 - 500 gal. 2,500 gal.	
Thums Co.	1310 Pier G. Avenue	U.G. Tank	Gasoline	1 - 12,000 gal.	
Thums Co.	1115 Pier J Avenue	A.G. Tank	Crude	6 - 209,000 bbls	
Toyota	1245 Pier J Avenue	U.G. Tank U.G. Tank U.G. Tank U.G. Tank	Wash Tank Gasoline Gasoline Gasoline 6 Tanks total	2 - 10,000 gal. 2 - 10,000 gal. 1 - 1,000 gal. 1 - 7,500 gal. 48,500 gal.	<b></b>
			<b>†</b>		

TABLE 3-8

HAZARDOUS M.TERIAL STORAGE (TANKAGE)

SOUTHEAST HARBOR DISTRICT (CONT)	TRICT (CONT) - 2				
OPERATOR	LOCATION	TYPE OF STORAGE	COMMODITY STORED	NUMBER/ CAPACITY	SPECIAL DESIGN SAFETY FEATURES
Queen Mary Emergency Plant	1256 Pier J Avenue	A.G. Tank A.G. Tank	LPG Lube Oil 2 Tanks total	1 - 6,000 gal. 1 - 15,000 gal. 21,000 gal.	
ITS	1281 Pier J Avenue	U.G. Tank A.G. Fixed Tank A.G. Fixed Tank	Diesel Gasoline LPG 6 Tanks total	4 - 10,000 gal ea 1 - 1,000 gal. 1 500 gal. 41,500 gal.	
National Molasses Co.	1395 Pier J Avenue	A.G. Fixed Tank	Benzine & Paint Thinner, etc.	28 - 20,000 bbl.	
Chevron Service Station	990 Queens Highway	U.G. Tank	Gasoline 4 Tanks total	2 - 9,562 gal. 2 - 5,760 gal. 15,322 gal.	
Powerine Oil Co.	865 Van Camp St.	A.G. Fixed Roof Tank A.G. Fixed Roof Tank A.G. Fixed Roof Tank A.G. Fixed Roof Tank	Crude Crude Crude Crude 14 Tanks total	6 - 2,000 bbl ea 4 - 2,400 bbl ea 2 - 500 bbl ea 2 - 200 bbl ea 23,000 bbls.	
Powerine Oil Co.	636 Windham	A.G. Fixed Roof Tank	Crude	11 - 17,000 bbls. total	
LBOD	705 Windham	U.G. Tanks U.G. Tanks U.G. Tanks U.G. Tanks	Gasoline Solvent Solvent Diesel 6 Tanks total	2 - 10,000 gal ea 2 - 1,000 gal ea 1 - 500 gal. 1 - 1,000 gal. 22,500 gal.	

TABLE 3-9

HAZARDOUS M TERIAL STORAGE (TANKAGE)

SOUTHEAST HARBOR DISTRICT (CONT)	TRICT (CONT) - 3			1	
OPERATOR	LOCATION	TYPE OF STORAGE	COMMODITY	NUMBER/ CAPACITY	SPECIAL DESIGN SAFETY FEATURES
Powerine Oil Co.	910 Windham	U.G. Tank U.G. Tank U.G. Tank	Gasoline Solvent Diesel 4 Tanks total	2 - 1,000 gal ea 1 - 1,000 gal 1 - 1,000 gal 4,000 gal.	
Powerine Oil Co.	945 Windham	A.G. Fixed Roof Tank	Crude	9 - 18,000 bbl total	
U.S. Lines	980 Windham	U.G. Tanks	Gasoline	1 - 10,000 gal	
Pasha	387 Harbor Scenic Way	U.G. Tank	Gasoline	2 - 40,000 gal	:
Powerine 011 Co.	699 S. Harbor Scenic Way	A.G. Fixed Roof Tank	Crude	13 - 23,400 bbls	
Chevron	988 Harbor Scenic Drive	A.G. Fixed Roof Tank	Crude	5 - 13,750 bbls.	
Chevron	1040 Harbor Scenic Drive	A.C. Fixed Roof Tank	Crude	6 - 13,500 bbls.	
Sea Land	669 Panorama Dr.	U.G. Tank U.G. Tank U.G. Tank A.G. Tank	Diesel Gasoline Lube OII Propane 8 Tanks total	2 - 12,000 gals. 2 - 12,000 gals. 2 - 550 gals. 2 - 1,150 gals. 25,700 gals.	
Thums	Berth 216	U.G. Tank	Diesel	2 - 20,000 gals.	

**TABLE 3-10** 

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	HAZARDOUS MATERIA	HAZARDOUS MATERIAL STORAGE OTHTR THAN TANK STORAGE	ANK STORAGE	
OPERATOR	LOCATION	· TYPE OF STORAGE	· COMMODITY STORED	CAPACITY
Metropolitan Stevedore	Berths 212-215	Open and Covered Storage	Petroleum coke	Open - 205,000 tons Closed-270,000 tons
Metropolitan Stevedore	Berths 28-29	Open Storage	Coke, Soda Ash	Open - 77,500 ft. <sup>2</sup>
Metropolitan Stevedore	Berths 30-31	Open Storage	Scrap Metal, Iron Ore, Grains	Open - 81,500 ft. <sup>2</sup>
Koppel	Berths 210-211	Grain Elevatər	Grains	Closed - 2,225,000 bushels
Calif. United Terminals	Berths 12-13 Berths 17-18 Berths 20-22 Berths 24-26	In Container: and 2-Transit Shads	Miscellaneous Miscellaneous	Open - 85 acres Closed 356,000 ft. <sup>2</sup>
Sealand	Berths 227-228	Containers	Miscellaneous	Open - 36.5 acres
Maersk	Berth 229	Containers	Miscellaneous	Open - 30 acres
U.S. Lines	Berth 230	Containers	Miscellaneous	Open - 21 acres
			·	

TABLE 4-2

# Section 4 VESSEL INVENTORY

The vessel inventory focuses on berths, commodities, and operations involving the shipment of hazardous materials. The fiscal year 1977-1978 was selected as a base period for the inventory because it is the latest complete period for which data is currently available, and because generally vessel data in the Port has been compiled and programmed on a fiscal year basis. The current inventory is presented with the berth and commodity throughputs classified within one to ten revenue ton ranges. This classification is used for a number of significant reasons. First, a preliminary survey of dangerous cargo manifests proved exceedingly cumbersome for achieving the stated objective of the inventory. Second, publication of exact throughput figures by berth or commodity tends to compromise the competitive position of particular Port tenants. These figures are, therefore, considered proprietary, and are not generally available to the public. Third, compiling berth and commodity throughputs within specified ranges, rather than listing exact figures, provides a reasonable and sufficient description of the extent of hazardous material throughput consistent with the intent of the program. (See Figure 10 and Table 5).

In fiscal 1977-1978 there were 4,169 vessel visits to the Port of Long Beach. Containers and break bulk cargo ships represented the largest number of vessel visits; about 30% of the total. Petroleum cargo vessel visits, including bunker vessels represented 18% of total vessel visits. Chemical and dry bulk cargo represented 11% of vessel visits, with chemical cargo only 3% of the total. Automobile cargo vessels represented 5% of total vessel visits. In addition to normal commercial vessel visits, 5% of such visits were related to the Navy Base, 21% represented vessels at anchor in the Harbor, and 10% were miscellaneous visits not represented by a particular hazardous cargo type (See Figure 11).

The majority of vessel visits in fiscal 1977-1978 were directed towards the Southeast Harbor District (34%). Most of these visits consisted of container cargo ships. Dry bulk cargo ships were the second most frequent visitors to this district, while break bulk, automobile and other miscellaneous cargoes represented the significant balance. Less than 1% of the vessel visits for this district involved chemical or petroleum cargoes.

Next in total volume of vessels was the Middle Harbor District with 22% of all vessel visits to the Port. Container and break bulk vessels represented the majority of vessel visits to this district (44%). Petroleum and chemicals were next in order of cargo vessel visits 21%. Dry bulk and automobile cargo vessel visits totaled only 13% of vessel visits to this district. A significant portion of vessel visits appeared to be of a non-cargo related nature in this district (22%).

The Southwest Harbor District experienced 21% of total vessel visits. This district is primarily an anchorage area where ships may stop over for various purposes before proceeding to their final destination which may be another port or a berth in the Port of Long Beach. Many of these ships anchored to take on bunkers by barge. Total bunkers supplied at anchors and at berths in the 1977-1978 fiscal year was about 3,650,000 revenue tons.

The Northeast Harbor District encountered about 17% of total vessel visits. The majority of these visits represented petroleum and/or bunker cargo vessels. Some vessels carrying chemical and break bulk cargos visited the district, but these represented less than 6% of the vessels visiting the district. Also, a small quantity of non-cargo related or miscellaneous vessel visits occurred here.

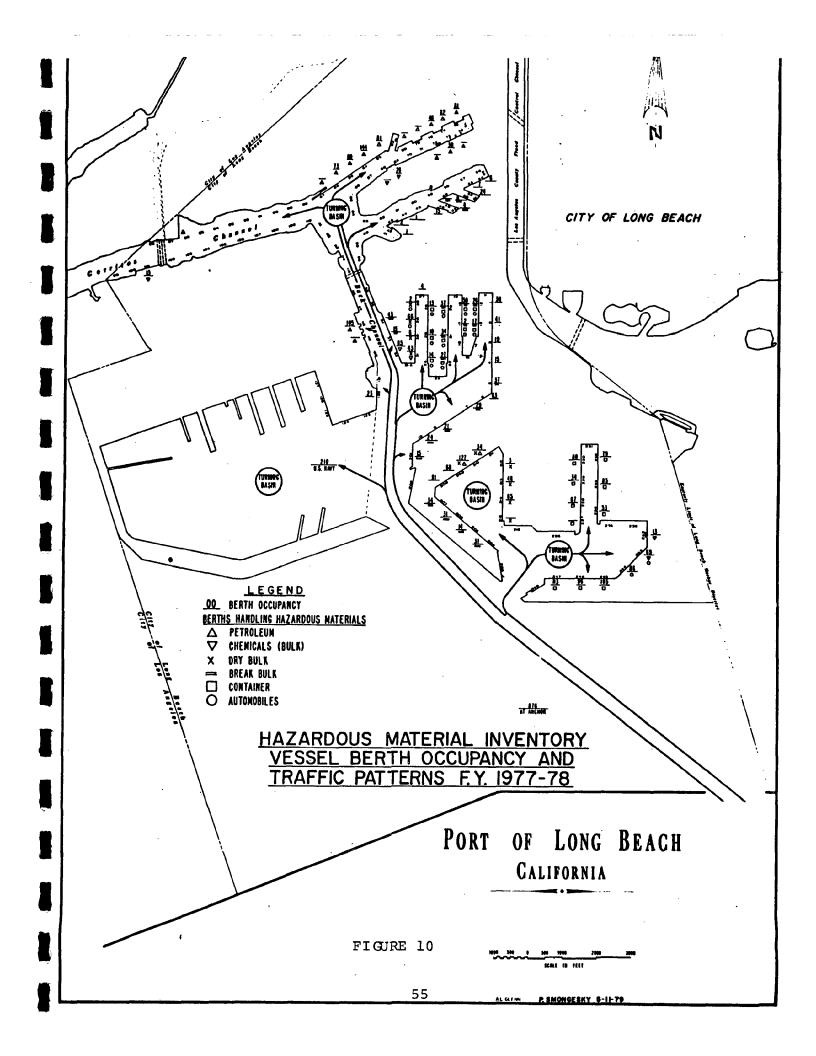
The West Harbor District experienced less than 1% of the total vessel visits. These were primarily chemical type cargo vessels.

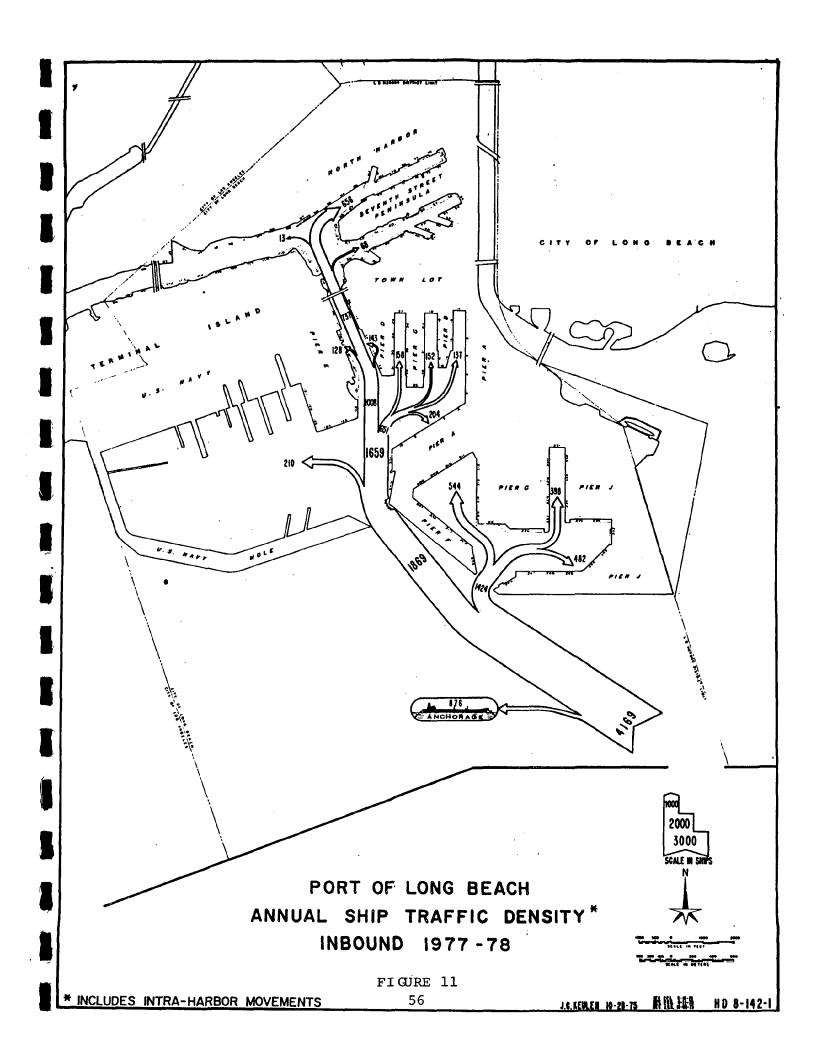
The Federal Use District received 210 vessel visits in the 1977-1978 fiscal year according to Navy sources. Vessels which are presently stationed at the Navy Base include three yard oilers, one yard oil-gas craft, one yard water craft, three yard tug boats, approximately four target ships, two destroyers, one Landing Platform Assault and two Mine Sweepers which are among the Ocean-Naval Reserve Fleet training ships homeported at Long Beach. These represent about 5% of total vessel visits to the Port.

Table 6 illustrates the Berth Throughput Inventory. Each berth is identified as to location by district in the Harbor, operator or use, throughput range, average time of vessel at berth, average throughput range per vessel, bunker throughput range, percentage of cargo inbound or outbound, number of vessel visits, and hazardous cargo types. A legend is included which explains the ranges of values and pertinent cargo types and pertinent cargo types and abbreviations.

Table 7 illustrates the Hazardous Commodity Inventory. Bulk Hazardous commodites are identified and classified according to cargo type (ie. general cargo, dry bulk, etc...) Then the hazard class, based on DOT and IMCO classifications, of each commodity is identified. Range quantities of both inbound and outbound throughputs of each commodity are listed. Berths which typically handle the commodity are identified.

Berth numbers in tables 6 and 7 have been codified to protect the propriatary relevant to particular Port tenants.





#### Vessel Safety

Vessel safety is the primary responsibility of the shippers and vessel crews. Both national and international laws govern vessel safety at sea. The Department of Transportation provides Guidelines and Administration over vessel safety in the United States.

The U.S. Coast Guard's jurisdiction over San Pedro Bay and the Port of Long Beach in terms of vessel related activities is governed by various volumes of the Code of Federal Regulations including CFRs 33,46 and 49. The Coast Guard has prime responsibility for overseeing port safety and security, protection of the marine environment, commercial and recreational boating safety, aids to navigation bridge enforcement of laws and treaties, and maritime search and rescue.

Under the authority of the Port and Waterways Safety Act, the Coast Guard specifies and inspects vessel navigation equipment and procedures, and may control the movement of vessels when circumstances warrant. Anchorage areas are specified, navigational aids maintained, and bridge clearance and operating procedures prescribed. Vessels and waterfront facilities are regulated and inspected, especially those dealing in hazardous materials and liquid-bulk cargoes. U.S. flag vessels also are documented, and U.S. crews and pilots are licensed.

Under the Federal Water Pollution Control Act, the Coast Guard has responsibility relative to pollution in coastal waters caused by oil and other hazardous materials. Vessels and terminals are regulated and inspected, transfers are monitored, and spill contingency plans required and approved. In the event of a spill, the Coast Guard determines the identity of the spiller (notification by the spiller is required) and monitors the clean up. If clean up efforts are unsatisfactory or the spiller cannot be immediately determined, Federal funds (subject to reimbursement) are utilized to protect the marine environment.

The Port of Long Beach receives notices from the Coast Guard of any violations which occur within its jurisdiction. The inspection records and violation reports are public record and may be obtained from the U.S. Coast Guard Marine Safety Officer in accord with the Freedom of Information Act.

In addition to the foregoing vessel safety provisions the Port utilizes Jacobsen Pilot Service to coordinate the safe movement of vessels in the Port. Special inspection procedures are available for particular types of cargo ships such as tankers, LNG and LPG vessels. See Appendix B for a more detailed illustration of pilot procedures and vessel inspection procedures.

#### BERTHS HANDLING HAZARDOUS MATERIALS\*

#### PETROLEUM

ARCO - 118, 119, 76, 77, 78, 79, 80 Amorient - 83 Powerine - 72, 73, 74 Texaco - 84, 85, 86, 87 Exxon - 210, 211A Chevron - 96 (Wharf fueling station)

#### CHEMICALS - (BULK)

Baker Commodities - 31, 32 National Molasses - 242, 243 Dow Chemical - 101 Proctor & Gamble - 68/69

#### DRY BULK

Koppel - 210, 211 (Grain)
Metropolitan Stev. - 212, 213, 214, 215
 (Petroleum Coke)
 28, 29, 30, 31

#### BREAK BULK

Open Berths - 5, 7, 33, 34, 48, 49, 50 CUT - 12, 13, 17, 18, 20, 21, 22 Cooper - 7, 9, 10, 201 Mercantile Marine - 204, 205 Cresent - 206, 207

#### CONTAINER

CUT - 12, 13, 17, 18, 20, 21, 22, 24, 25, 26 Sealand - 227, 228 Maersk - 229 U.S. Lines - 230 ITS - 232, 233, 234 PCT - 245, 245, 247

#### AUTOMOBILES

Pasha/Toyota - 243, 244, 28, 29 CUT - 12, 13, 17, 18, 20, 21, 22, 24, 25, 26

\*Exclusive of Navy Berths

TABLE 5

	BERTH THROUGHPUT INVENTORY*						
BERTH NUMBER	BERTH THROUGHPUT (RANGE)	AVERAGE VESSEL TIME AT BERTH (RANGE)	AVERAGE VESSEL THROUGHPUT (RANGE)	BUNKER THROUGHPUT (RANGE)	CRANE IN (%)	CRANE OUT (%)	HAZARDOUS CARGO TYPE
4638	<u>'</u> 1	5	1	1	_		7
5048	1	5	1.	1	_	-	7
7951	1	5	1	1	~		7
2944	6	1	9	2	99	1	7
7655	2	5	7	1	96	4	4
8342	2	4	5	1	97	3	4
1953	5	4	7	2	9.8	2	7
3056	2	5	6	   <u> </u>	99	1	  '
6848	2	4	8	1	97	3	7
4965	2	1	2	1	97	3	2
8465	9	2	9	4	65	35	1
6070	7	1	6	7	15	85	1
5582	10	21	9	6	55	45	1
2776	10	2 .	10	6	68	32	1
8975	9	2	7	2	99	1	1
4380	10	2	9	10	77	23	1
8877	5	1	3	9	3	97	1
5491	10	2	10	8	87	13	1
7108	5	1	8	1	79	21	2

<sup>\*</sup> SEE LEGEND FOR EXPLANATION OF CODES

TABLE 6-1

		BERTH	THROUGHPU	r inventò	RY*		
BERTH NUMBER	BERTH THROUGHPUT (RANGE)	AVERAGE VESSEL TIME AT BERTH (RANGE)	AVERAGE VESSEL THROUGHPUT (RANGE)	BUNKER THROUGHPUT (RANGE)	CRANE IN (%)	CRANE OUT (%)	HAZARDOUS CARGO TYPE
7125	10	2	10	9	9.8	2	1
6116	4	4	4 .	3	19	81	7
9304	5 .	4	8	4	92	8	4
7211	7	4 .	9	5	93	7	4
0510	4	4	7	3	67	33	4
4202	7	4	9	5	95	5	4
9601	8	4	9	6	95	5	4
6202	7	2	5	7	85	15	7
8201	6	1	5	81	78	22	7
1802	5	3	5	5	7	93	7
2400	5	4	6.	5	17	83	7
7610	4	3	3	3	28	72	7
3697.	4	4	6	3	45	55	7
4591	4	3	4	6	32	8	4
6800	5	2	5	2	92	8	7
1308	2	3	3	4	59	41	4
3012	5	5	8	4	94	6	4 .
6796 ·	4	3	4	3	29	71	4,5,6
1014	2	2	2	5	1	99	4,5,6

<sup>\*</sup> SEE LEGEND FOR EXPLANATION OF CODES

TABLE 6-2

	BERTH THROUGHPUT INVENTORY*						
BERTH NUMBER	BERTH THROUGHPUT (RANGE)	AVERAGE VESSEL TIME AT BERTH (RANGE)	AVERAGE VESSEL THROUGHPUT (RANGE)	BUNKER THROUGHPUT (RANGE)	CRANE IN (%)	CRANE OUT (%)	HAZARDOUS CARGO TYPE
5921	. 1	1	1	1	-	-	7
4313	1	3	3 .	2	0	100	4,5,6
8010	7	2	7	8	58	42	4,5,6
8912	4	3	5	7	58	42	4,5,6
3324	4	3	3	5	42	58	4,5,6
4818	2	3	2	4	33	67	4,5,6
4320	2	3	3	3	37	63	5,6
7532	2	2	4	2	ΰΰ	÷υ	၁,6
8518	2	2	5	3	67	33	5;6
6721	1	5	2	1	0	100	7
7935	1	1	1	1	-	-	3,6
1330	8	2	7	5	0	100	3,6
2638	1_1	1	2	2	30	70	3
8023	5	3	4	5	55	56	2,3
2930	5	1	3	7	32	68	2
6327	2	2	3	3	67	33	4
7441	4	3	3	5	61	39	4
0406	8	1	6	9	78	22	1,3
7218	9	3	10	5	σ	100	1,3

<sup>\*</sup> SEE LEGEND FOR EXPLANATION OF CODES

TABLE 6-3

		BERTH	THROUGHPU	T INVENTO	RY*		
BERTH NUMBER	BERTH THROUGHPUT (RANGE)	AVERAGE VESSEL TIME AT BERTH (RANGE)	AVERAGE VESSEL THROUGHPUT (RANGE)	BUNKER THROUGHPUT (RANGE)	CRANE IN (%)	CRANE OUT (%)	HAZARDOUS CARGO TYPE
4208	1	1	1	1	-	1.	3
9607	10	3	10	6	1	<b>∣99</b> ·	3
0806	10	3	10	8	0	100	3
7235	10	2	10	10	64	36	. 5
0331	. 6	2	7	8	52	48	5
9822	9	1	8	10	41	59	5
4228	9	2	9	9	57	43	5
7240	9	2	9	9	63	37	5
6228	8	2	8	8	56	44	5
0834	2	2	5	2	95	5	2
0637	6	2	5	8	63	. 37	2,6
3247	5	2	4	8	53	47	6
5250	9	1	8	10	6.6	34	5
9147	9	2	7	8	57	43	5
6241	9	2	7	8	54	46	5
8182	7	3	1	10	σ	100	7
						<u>.</u>	
				1			

<sup>\*</sup> SEE LEGEND FOR EXPLANATION OF CODES

TABLE 6-4

• .		LEGEND	
BERTH THROUGHPUT RANGE CODE (1000 REVENUE TONS)		AVERAGE ELAPSED TIME VESSELS AT BERTH RANGE CODE (HOURS)	AVERAGE THROUGHPUT PER VESSEL AT BERTI RANGE CODE (REVENUE TONS)
1. 0-10 2. 11-25 3. 26-50 4. 51-100 5. 101-175 6. 176-260 7. 261-375 8. 376-500 9. 501-1000 10. 1001+		1. 0-24 2. 25-48 3. 49-68 4. 97-168 5. 169+  BUNKER THROUGHPUT  RANGE CODE (1000 REVENUE TONS)  1. 0-1 6. 20-25 2. 1-5 7. 25-50 3. 5-10 8. 50-100 4. 10-15 9. 100-150 5. 15-20 10. 150+	1. 0-500 2. 501-1000 3. 1001-1750 4. 1751-2500 5. 2501-3750 6. 3751-5000 7. 5001-7500 8. 7501-10,000 9. 10,000-20,000 10. 20,001+
HAZARDOUS CARGO TYPE			<i>i</i>
1. Petroleum and/or 2. Chemicals 3. Dry Bulk 4. Break Bulk 5. Containers 6. Automobiles 7. Not Applicable 8. Defense	Bunkers		

TABLE 6-5

	IIAZARDOU	S COMMODITY IN	ENTORY*		
CARGO TYPE	HAZARDOUS COMMODITY	HAZARD CLASS	INBOUND THROUGHPUT RANGE	OUTBOUND THROUGHPUT RANGE	BERTH NOTE
1	LUBE OIL ADDITIVE	ORM-C	1	2	1.
1	WINĖ	COM. LIQ.	. 4	4	2
1	BEER	#1	3	4	2
1	SAKI	et ·	1		2
1	WHISKEY	<b>21</b>	2	1	2
1	RAW COTTON	ORM-C	1	7	2,4
1	MANILLA HEMP	. 11	2	1	2,4
1	карок	"	2	3	2 4
1	BURLAP	**	5	-	2,4
1	WASTE PAPER	FLAM SOLID	1	-	2,4
1	AUTOMOBILES	ORM-C	7		5
1	MIS. CHEMICALS	FLAM LIQUID	5	5	2,4
1	BORIC ACID	· tt	1	3	2,4
1	SYNTHETIC RESIN		1	4	2,4
1	MIXED PAINTS	. "	1	2	14
1	FUEL OIL DRUMS	COM. LIQUID	-	2	14
1	LUBE OIL DRUMS	COM. LIQUID	-	3	14
1	SOLVENT DRUMS	FLAM LIQUID	-	1	"
1	CRUDE OIL DRUMS	**	-	1	17

<sup>\*</sup> SEE LEGEND FOR EXPLANATION OF CODES

TABLE 7-1

	HAZARDOU	S COMMODITY INV	ENTORY*		
CARGO TYPE	HAZARDOUS COMMODITY	HAZARD CLASS	INBOUND THROUGHPUT RANGE	OUTBOUND THROUGHPUT RANGE	BERTH NOTE
1	OLD CLOTHING	FLAM SOLID	1	2	2,4
1	GREASE •	FLAM LIQUID	-	2	15
1.	DISINFECTANTS	POISON B	_	2.	2,4
1	MOLYBDENUM DRUMS	ORM-B	-	1	2,4
1	BOOK MATCHES	FLAM SOLID	-	1	2,4
2	PETROLEUM COKE	ORM-C	2	8	3,6
2	LEAD ORE	COM LIQUID	4	2	. 3,6
3	CAUSTIC SODA	CORROSIVE	6	-	1
3	FISH OIL	ORM-C	1	1	15
4	CRUDE OIL	FLAM LIQUID	8	.7	8
4	DIESEL OIL	COM LIQUID	7	7	9
4	FUEL OIL	n	8	8	9
4	SOLVENTS	11	7	7	11
4	GASOLINE	FLAM LIQUID	8	7	10
4	LUBE OIL	COM PIONID	6	2 .	15
4	NAPTHA	FLAM LIQUID	6	1	12
4	JET FUEL	п	7	5	9,12
5	BUNKER DIESEL	COM LIQUID	-	8	13
5	BUNKER OIL	н .	-	8	13

<sup>\*</sup> SEE LEGEND FOR EXPLANATION OF CODES

TARIE 7-2

#### LEGEND

#### CARGO TYPES

- 1. General Cargo
- 2. Dry Bulk
- 3. Liquid Bulk (Less Petroleum)
- 4. Petroleum Bulk
- Bunkers

#### HAZARD CLASS

- ORMB Other regulated material capable of causing significant
- ORMC Other regulated materials being unsuitable for shipments without special provisions.
- COM LIQUID Combustible Liquid with a flash point above 100°F & below 200°F.
- FLAM LIQUID Flammable Liquid with a flash point below 100°F. FLAM SOLID - Flammable Solid which is readily ignited.
- POISON B A poison, other than Poison A & Irritant, toxic toman.

#### COMMODITY THROUGHPUT RANGE CODE

#### (1000 REVENUE TONS)

- 0-1
- 1-5 2.
- 3. 5-10
- 4. 10-25
- 5. 25~50
- 6. 50-100
- 100-300 300<sup>+</sup> 7.
- 8.

#### OWNER STATUS

- H.D. Harbor Department
  P. Private

#### BEDTH NOTES - CODES

- 7935,1330
- 6796,1014,4313,8010,8912,3324 4818,4320,7532,8518 2.
- З. 4208,9607,0806,7222
- 4. 4591,1308
- 5. 0637,3247
- 2628,8023 6.
- 7. 7218
- 8. 7125,4380,5491,2685
- 9. 4380,5491,2685,8877,6070,5582
- 10. 8465,8975,4380,8877,5491,2685
- 11. 0834,7108
- 8975 12.
- 13. 8462,8201
- Container & Break Bulk 14.
- 15. All Locations
- 16. 8975,4965

### Section 5 WATERFRONT FACILITIES SURVEY

The Port of Long Beach is one of the few major California and West Coast Ports with all berths within one to three miles of the open ocean. All berths are also within one mile of major regional and interstate non-stop freeway networks. The area of the Long Beach Harbor District is 29 square kilometers (11.2 sq. mi.). The land area of the Port occupies 11.7 square kilometers (4.5 sq. mi.). Port owned property constitutes approximately 600 hectares (1480 acres).

There are 66 operational cargo berths. Eleven piers are located within the Port, including about 13 kilometers (8.2 miles) of wharves. The Port has 12 transit sheds with a storage area of 46,699 square meters (502,676 sq. ft.). There are 162 hectares (400 acres) of asphalt paved open storage. Four container freight stations with net area of 21,725 square meters (233,850 sq. ft.) are located in the Port. The total length of rail lines in the Port is 97 kilometers (60 miles). Harbor owned rail-road lines include 61 kilometers (38 miles) of rail.

The following text focuses on three general aspects of waterfront facilities:

- An inventory of bulk petroleum and chemical berths in the Port;
- An inventory of terminal maintenance responsibilities; and
- 3. A survey of terminal safety provisions.

#### Facilities Inventory

This section of the HMI identifies berths and associated equipment used in handling hazardous cargoes, with particular emphasis on two (2) cargo types; petroleum and liquid (Chemicals/oils) bulk. Combined, these shipments amounted to 57% of total tonnage moving through the Port during 1977-78. These commodities also represent two of the most hazardous cargo types moving through the Port and, hence become the primary focus of the Risk Management Planning process.

#### Petroleum Berths

Berths No. 57, 73, 76-79, 83, 84-87, 118-119 and 210 handle the transfer of petroleum bulk. Exhibits 2,4,5,6,7,9, and 10

provide detailed information on facilities and equipment used in the handling of this cargo, by berth, including terminal characteristics (if available), terminal layout, U.S. Coast Guard Waterfront Facilities Survey information and fire protection system layout. The latter information was obtained from the Coast Guard, Captain of the Port's office.

#### Chemical Berths

Berths 30-31, 68-69, 101 and 242 handle primarily liquid (chemical/oils) bulk commodities. Exhibits 1, 3, 8 and 11 detail information on facilities and equipment used for the handling of these cargoes, by berth, including terminal characterisics (if available), terminal layout, U.S. Coast Guard Waterfront Facilities Survey information and fire protection system layout.

# BAKER COMMODITIES BERTHS 30, 31, 32, 33 EXISTING LIQUID BULK (CHEMICAL) FACILITIES\*

#### WHARF CHARACTERISTICS

Name and Location: Berths 30-31, Pier D - East side about

0.50 miles west of Pico Avenue

Operated By: Baker Commodities

#### WHARF DESCRIPTION

Length (feet): 992

Width (feet): Open

Lighted: Yes

Load Capacity: 750 and 2,000

Design Capacity (feet): 43

Wharf Height: 11.8

Type of Construction: Concrete quay wall,

solid fill with asphalt surface, fronted by timber

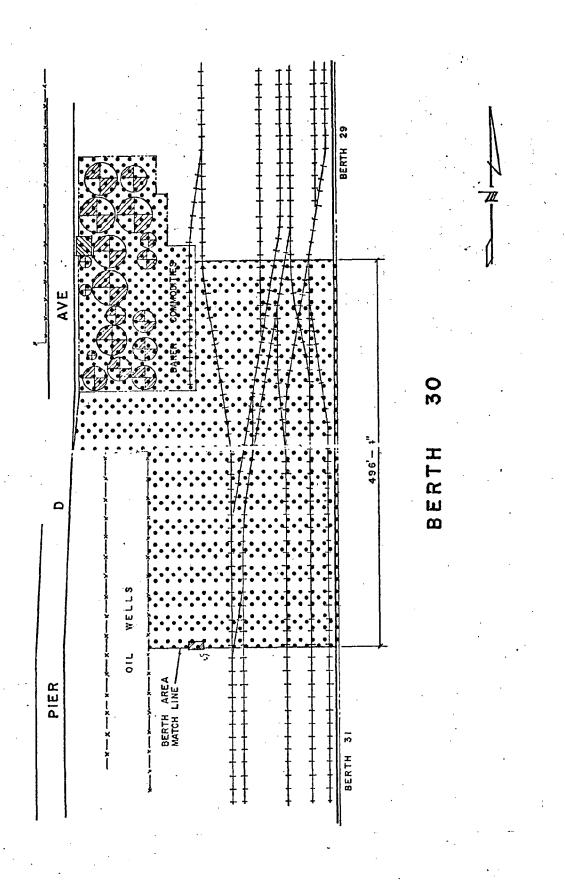
fenders.

Open Storage Area (Sq. Ft.): 81,500 sq. ft.

<sup>\*</sup> Used as a multi-commodity facility. See also description for Berths 32-33

		Surve	ey Date: NOV 1 1976
FACILITY: BERTH 30		PIER	NO.
LOCATION: NORTH END OF THE	EAST BASIN		
OWNED BY: CITY OF LONG BEA	СН	437-0041	SAME
Name		Day Phone	Night Phone
211 MARTNER, LON Business Addre	IG BEACH		
• .			
OPERATED BY: BAKER COMMOD Name	OTTIES Co.	HE6-1137 Day Phone	SAME Night Phone
PIER.D. BERT	TH 30, LONG BEAC	CH	
Business Addre EMERGENCY PHONE NUMBERS:	:88	•	
	• .		
PENA SUP	v.		997-9487
HORTON		(71	4) 892-5292
OCK OFFICE			7 & 432-8721
Name	Position	Firm	Emerg. Phone
STEAMSHIP LINES REGULARLY HA	ANDLED: VARIO	us	
DESCRIPTION PIER:	•		
LENGTH OF PIER 485'	·	WIDTH OF PIE	R 2001
LENGTH OF APRON 486'	en e	WIDTH OF APR	ON OPEN
DEPTH ALONGSIDE (MLW) 42	) (	USABLE BERTH	ING SPACE 86'
HT. DECK ABOVE MLW 10	<u> </u>	LOAD CAP. PE	R SQ. FT. 7501bs
TYPE OF CONSTRUCTION CONC			
LIGHTED OR UNLIGHTED LIGH	HTED		
TRANSIT SHEDS: No. N	NONE N	io	No.
TYPE OF CONSTRUCTIONN	N/A		
LENGTH AND WIDTH (FT)			
HEIGHT INSIDE (FT)			
TOTAL CARGO FLOOR (SQ FT)	•		
LOAD CAPACITY (#/ SQ FT)_			
LOCATION OF AUTHORIZED PARKI	ING N/A		
		04	/1/77 REVISED

WATER SUPPLY AVAILABLE TO VESS	ELS:	AMOUNT_	2⅓"HOSI	CON	VECTI	ON	·	
CARGO HANDLING DEVICES:	FORK	LIFTS	·	····			1.,.	
ACCESS:								
RAILWAY:	FIVE	RAILWAY	TRACKS					
VEHICULAR:	VIA	EL EMBAR	CADERO					
URITY:								
WATCHMAN SECURITY	NONE							•
Type/Agency	NONE					Hours	;	• .
LOCATION OF WATCHMAN	NONE							
FENCING	NONE	-						. '
Type			· · · · · · · · · · · · · · · · · · ·			Area		
E FIGHTING FACILITIES:						•	• • •	
SPRINKLER SYSTEM: AREA COVERE	D NONE							
FIRE ALARMS: (NO & LOCATION)	NONE							_
PORTABLE EXTINGUISHERS (NO.)	NONE		INSIDE	·		(	OUTSIDE	
FOAM STOCK AND EQUIPMENT	NONE	· · · · · · · · · · · · · · · · · · ·					•	
FIRE HYDRANTS (NO & LOCATION)			BY OVER	EAD T	RUCK	T.OADE	R AT S	- TORAC
• •			<u> </u>					-
FIRE HOSE (NO. & LOCATION Outs	NONI	<u></u>		<del></del>		<del> </del>	<del></del>	-
	NON	<u> </u>		` .		· 	<del></del>	-
Ins	Lae		,					<i>.</i>
REMARKS:			·					•

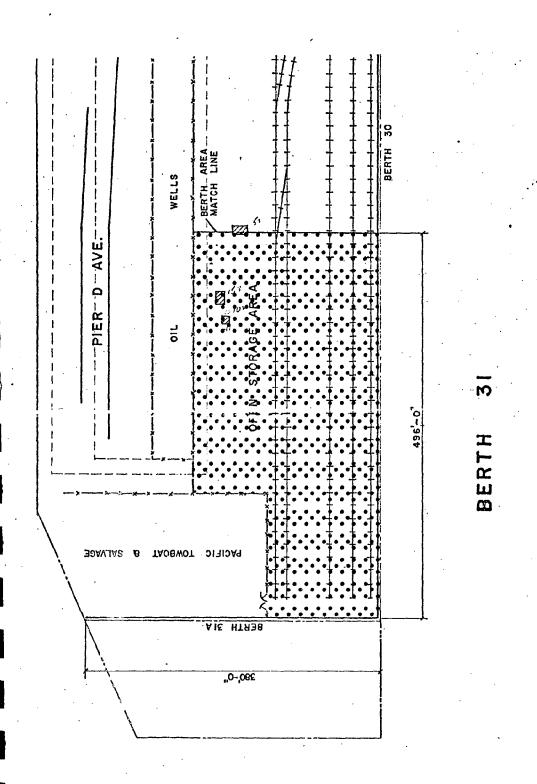


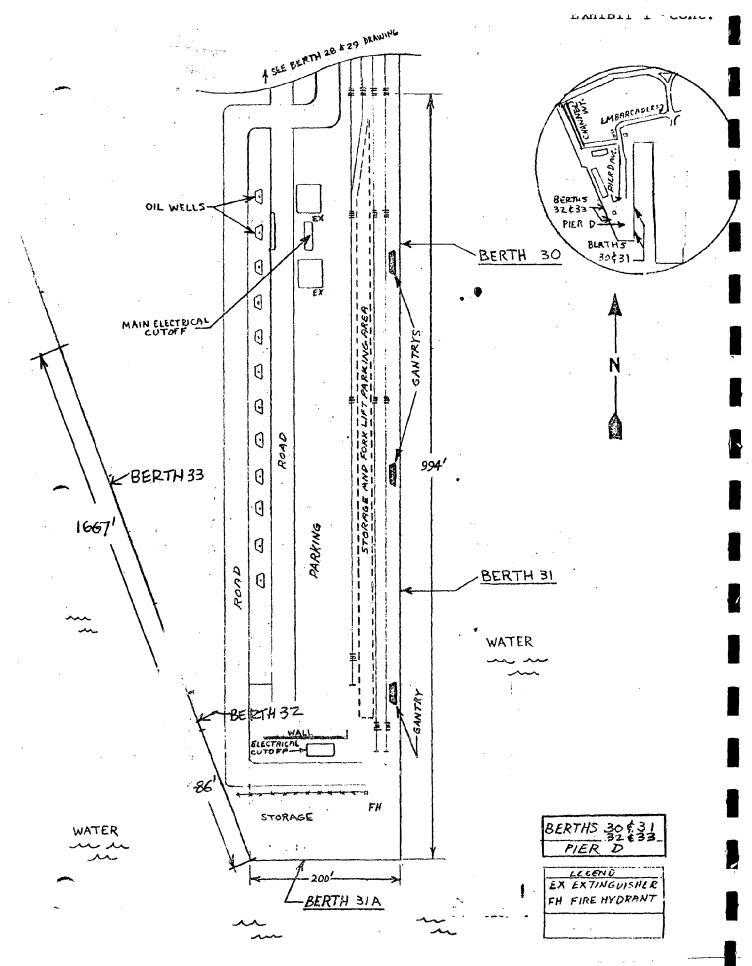
	Survey	/ Date: NOV 1 1976
FACILITY: BERTH 31	PIER N	NO
LOCATION: EAST BASIN PIER D		
OWNED BY: CITY OF LONG BEACH Name	437-0041 Day Phone	SAME Night Phone
P.O. BOY 570, LONG F Business Address	SEACH	
Business Address		
OPERATED BY: BAKER COMMODITIES	HE6-1137 Day Phone	SAME
	•	
Business Address	NG BEACH	
EMERGENCY PHONE NUMBERS:		
F. PENA SUPERVISOR		997-9487
R. HORTON		
DOCK OFFICE	التي المساور التي الموادية التي التي التي التي التي التي التي التي	432-8727 and
Name Position	Firm	432-8721 Emerg. Phone
PURPOSE FOR WHICH USED: SHIPPING AND RECEIVE	ING	
VESSELS ACCOMMONATED: CARGO		
STEAMSHIP LINES REGULARLY HANDLED: VARIOU	S	
DESCRIPTION PIER:		
LENGTH OF PIER 1,607	width of Pier	OPEN
LENGTH OF APRON 1,607	WIDTH OF APRO	OPEN
DEPTH ALONGSIDE (MLW) 34'	USABLE BERTHIN	NG SPACE 1,607
HT. DECK ABOVE MLW 13'	LOAD CAP. PER	SQ. FT. 2,000
TYPE OF CONSTRUCTION CONCRETE BULKHEAD WI		
LIGHTED OR UNLIGHTED LIGHTED		
TRANSIT SHEDS: NolNo	N/A	No. N/A
TYPE OF CONSTRUCTION CONCRETE WALLS		
LENGTH AND WIDTH (FT)600x125		
HEIGHT INSIDE (FT) 20'		
TOTAL CARGO FLOOR (SQ FT) 40,000		
LOAD CAPACITY (#/ SQ FT) 2.000		
LOCATION OF AUTHORIZED PARKING NORTHWEST EN		

BERTH 31 FACILITIES: POWER AVAILABLE TO VESSELS: VOLTAGE 220 CAPACITY 3 PHASE 60 CYCLE EMERGENCY POWER ACCOMMODATIONS: NONE WATER SUPPLY AVAILABLE TO VESSELS: AMOUNT2" HOSE CONNECTIONS CARGO HANDLING DEVICES: FORKLIFTS AND PAPER CARRIERS ACCESS: RAILWAY: 3 RAILWAY TRACKS VEHICULAR: ENTRANCE FROM ELEMBARCADERO OR PIER D. AVE. SECURITY: CARGO PROTECTION WATCHMAN SECURITY AS REQUIRED Type/Agency Hours LOCATION OF WATCHMAN ROVING FENCINCHONE Area FIRE FIGHTING FACILITIES: SPRINKLER SYSTEM: AREA COVERED OVERHEAD AUTOMATIC HEAT ACTIVATED FIRE ALARMS: (NO & LOCATION) 1 NORTHEAST CORNER & 1 SOUTHEAST CORNER PORTABLE EXTINGUISHERS (NO.) 16 INSIDE FOAM STOCK AND EQUIPMENT NONE FIRE HYDRANTS (NO & LOCATION) 3(TWO AT SOUTH END ONE AT NORTH END) FIRE HOSE (NO. & LOCATION NONE SIX ( THREE ON EACH WALL) Inside REMARKS:

CGRG REP. 11-88870

PIER INSPECTOR R.K. WIEGERT CHO 2





# BAKER COMMODITIES BERTHS 32,333 EXISTING LIQUID BULK (CHEMICAL) FACILITIES

Name & Location: Berths 32-33, Pier D - West side of Pier D about

0.50 miles west of Pico Avenue

Operated by: Baker Commodities

#### Wharf Description

Length (ft.): 824

Width (ft.): Open

Lighted: Yes

Load Capacity (lb./sq.ft.): 750 and 2000

Design Depth: Pierhead - 36 ft.; 9 ft. out - 42

Height of Deck @ MLLW (ft.): 14.1

Type of Construction: Concrete quay wall, solid fill with asphalt surface, fronted by timber fendrs.

Open Storage Area (sq.ft.) & Location: 36,000

Mechanical Handling Facilities: Two 6" pipe lines extend from Berth 32 to five coconut oil storage tanks, with 22 coconut and tallow tanks totalling 163,200 bbls.

Highway Connections: Via Pico to Water Street, to Channel Way.

Pailway Connections: Railroad tracks service the area

Water Supply: 4 - 2" water outlets @ 100 gal/min. (ea)

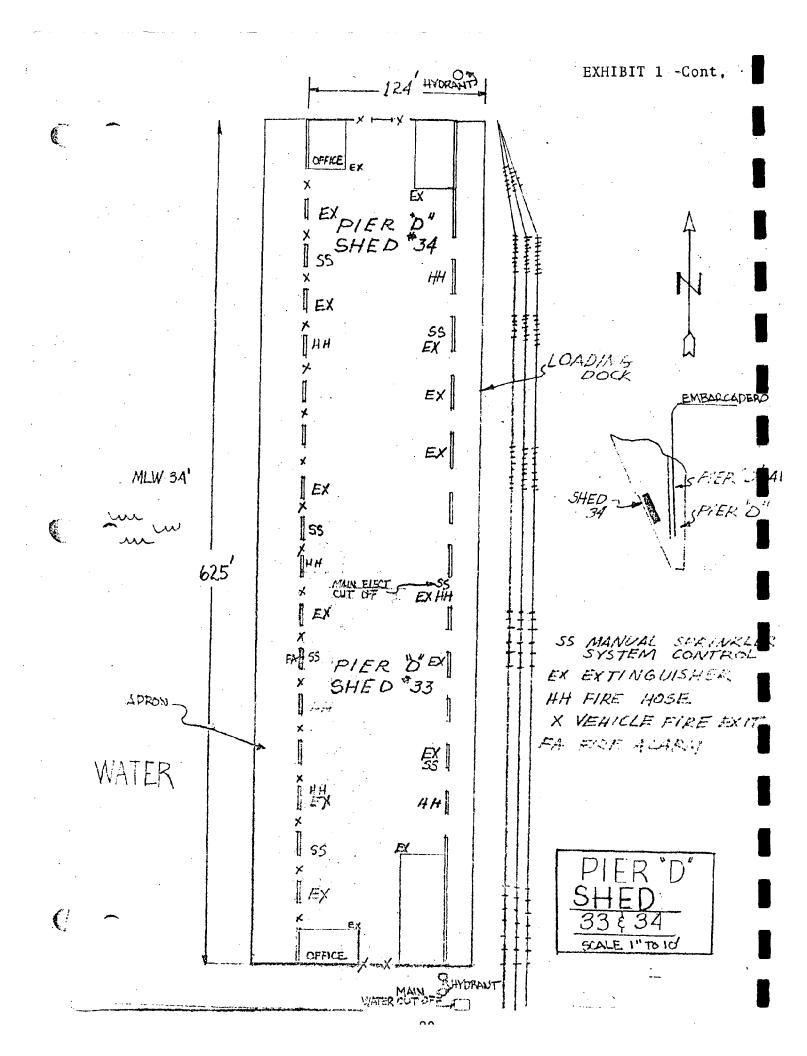
Electric Supply: A.C. 110 volts, single phase, 60 cycle

Fire Protection : Fire Hydrants, hose, hand extinguishers & watchmen.

		Surve	y Date: NOV 1 19
FACILITY:	BERTH 33	PIER	NOD
LOCATION:	EAST BASIN, PIER	D	
OWNED BY:Name	CITY OF LONG BEAC	H 437-0041 Day Phone	SAME Night Phone
	P.O. BOX 570, LON	G BEACH	,
Busi	ness Address		
PERATED BY: Name	BAKER COMMODITITE	S CO. 436-1137 Day Phone	SAME Night Phone
EMERGENCY PHONE NU		LONG BEACH	
F. PENA	SUPV.		997-9487
R. HORTON			(714)892-5292
Name	Position	Firm	Emerg. Phone
PURPOSE FOR WHICH	USED: PUMPING STATION,	TALLOW PRODUCTS	
ESSELS ACCOMMODAT	ED: CARGO		
	GULARLY HANDLED: VARIOUS	e e	
DESCRIPTION PIER:	VARIOU.		· · · · · · · · · · · · · · · · · · ·
LENGTH OF PIER_	1607	width of Pler	OPEN
LENGTH OF APRON	1607	WIDTH OF APROI	NOPEN
DEPTH ALONGSIDE	(MLW) 34	USABLE BERTHI	NG SPACE 1607
	MLW13		
TYPE OF CONSTRUC	CTION CONCRETE WALLS, ST	TEEL FRAME ASPHALT	FLOOR
	GHTED LIGHTED	•	
	No 11		
TYPE OF CONSTRU	CTION CONCRETE WALLS. S'	TEEL FRAME ASPHALT	FLOOR
	H (FT) 600×125		
	20		
	or (sq 467,000		
TOTAL CARGO FLO			

BERTII 33

CILITIES:  POWER AVAILABLE TO VESSELS:	VOLTAGE 220 CAPACI	TY 3DHASE 60 CVC
EMERGENCY POWER ACCOMMODATION		ITHASE_BULLIU
WATER SUPPLY AVAILABLE TO VES	SELS: AMOUNT 2" HOSE CONNECT	IONS
CARGO HANDLING DEVICES:	FORKLIFTS AND PAPER CARRIER	<u>S</u>
× .		
ACCESS:		
RAILWAY:	THREE RAILWAY TRACKS	
VEHICULAR:	VIA EL EMBARCADERO OR PIER	D AVE.
CURITY:	•	
WATCHMAN SECURITY	CARGO PROTECTION	AS REQUIRED
Type/Agency		Hours
LOCATION OF WATCHMAN	ROVING	
FENCING	NONE	Area
Type		Area
RE FIGHTING FACILITIES:	·	
SPRINKLER SYSTEM: AREA COVER	ED OVERHEAD AUTOMATIC HEAT ACT	IVATED
FIRE ALARMS: (NO & LOCATION)	1 NORTHWEST CORNER & 1 SOUT	HWAST CORNER
•	_16INSIDENON	
		•
FOAM STOCK AND EQUIPMENT	NONE	
FIRE HYDRANTS (NO & LOCATION)	THREE (TWO AT SOUTH END, ON	E AT NORTH END)
FIRE HOSE (NO. & LOCATION	NONE	
Out	side	
Ins	SIX (THREE ON EACH WALL)	
	••	
REMARKS:	•	

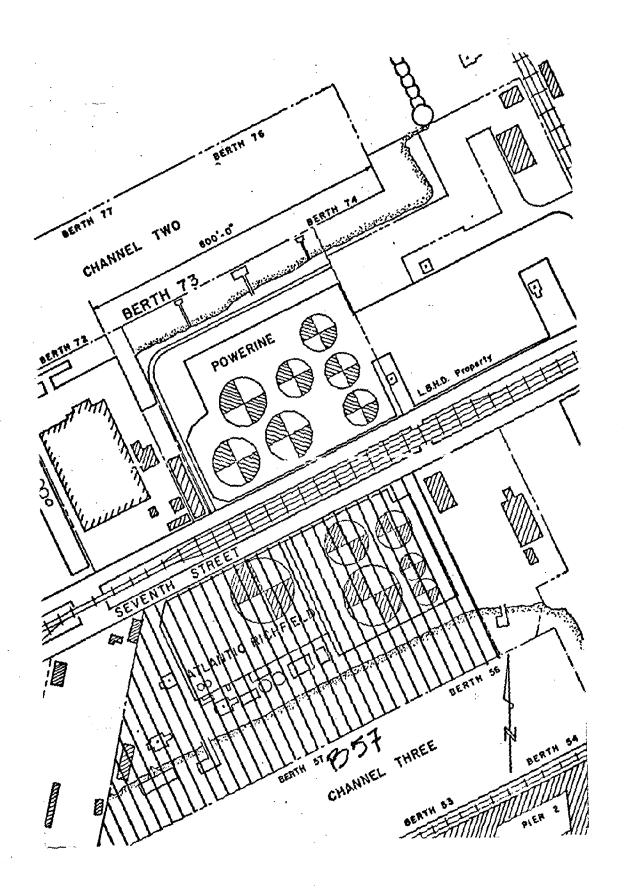


#### EXHIBIT 2

ARCO (STORAGE ONLY)
BERTH 57
EXISTING PETROLEUM BULK FACILITIES

EACTITT'.	מממשות בלנבי	(OTOD LOT	OMI A)	י מסדע	y Date: N	
		(STORAGE				
LOCATION:	NORTH SIDE	OF CHANNEL 3 .	APPROX. 0.	19 MILES	FROM HEAL	OF CH
OWNED BY:	ATLANTIC RIC	HEIELD CO.	HE6-907 Day P	hone	Nigh	436-90 t Phone
	P O BOY 3	124, TERMINAL	TSLAND SAN	PEDRO. C.	<b>A</b> .	
-	Business Add	ress		1 22.00		
OPERATED LY:	HEALY-TIBRE	rs constructio	N CO.			
· · · · ·	Name		Dav P	hone	Night	Phone
EMERGENCY PHO	Business Add NE NUMBERS:	ress	•	•		
	· ,		:			436-90
UTY FOREMAND						
Name	nava and a same and a	Position		Firm	Emerg.	Phone
VESSELS ACCOM STEAMSHIP LIN		HANDLED; N/A				
	ES REGULARLY	HANDLED;N/A				
STEAMSHIP LIN	ES REGULARLY					N/A
STEAMSHIP LIN DESCRIPTION PIER: LENGTH OF	ES REGULARLY	HANDLED;N/A	WIDT	H OF PIER		
STEAMSHIP LIN  DESCRIPTION  PIER:  LENGTH OF  LENGTH OF	ES REGULARLY	HANDLED; N/A	WIDT	H OF PIER	N	OPEN
STEAMSHIP LIN  DESCRIPTION PIER:  LENGTH OF  LENGTH OF  DEPTH ALON	ES REGULARLY PIER AFRON	HANDLED; N/A N/A55'	WIDT WIDT USAB	H OF PIER	NNG SPACE_	OPEN
STEAMSHIP LIN  DESCRIPTION PIER:  LENGTH OF  LENGTH OF  DEPTH ALON  HT. DECK A	PIER  AFRON  GSIDE (MLW)  BOVE MLW  INSTRUCTION TI	HANDLED; N/A  N/A  55'  25'  13'  MRER PILE, TIM	WIDT WIDT USAB LOAD	H OF PIER H OF APRO LE BERTHI CAP. PER	N SPACE_	OPEN 55' N/A
STEAMSHIP LIN  DESCRIPTION PIER:  LENGTH OF  LENGTH OF  DEPTH ALON  HT. DECK A  TYPE OF CO	PIER  AFRON  GSIDE (MLW)  BOVE MLW  INSTRUCTION TI	N/A  .55'  .25'  MRER PILE, TIMPROACH TO UPPE	WIDT WIDT USAB LOAD	H OF PIER H OF APRO LE BERTHI CAP. PER	N SPACE_	OPEN 55' N/A
STEAMSHIP LIN  DESCRIPTION PIER:  LENGTH OF  LENGTH OF  DEPTH ALON  HT. DECK A  TYPE OF CO	PIER  AFRON  GSIDE (MLW)  BOVE MLW  INSTRUCTION TI  AP	N/A  .55'  .25'  MRER PILE, TIMPROACH TO UPPE	WIDT  WIDT  USAB  LOAD  BER DECKED.  ER END.  GHTED	H OF PIER H OF APRO LE BERTHI CAP. PER	NG SPACE_ SQ. FT . WHARF W	OPEN 55' N/A
STEAMSHIP LIN  DESCRIPTION PIER:  LENGTH OF  LENGTH OF  DEPTH ALON  HT. DECK A  TYPE OF CO  LIGHTED OR  TRANSIT SH	PIER  AFRON  GSIDE (MLW)  BOVE MLW  INSTRUCTION TI  AP	N/A  N/A  55'  25'  13'  MRER PILE TIME PROACH TO UPPE UNLI	WIDT  WIDT  USAB  LOAD  BER DECKED.  ER END.  GHTED	H OF PIER H OF APRO LE BERTHI CAP. PER OFFSHORE	NG SPACE_ SQ. FT . WHARF W	OPEN 55' N/A
STEAMSHIP LIN  DESCRIPTION PIER:  LENGTH OF  LENGTH OF  DEPTH ALON  HT. DECK A  TYPE OF CO  LIGHTED OR  TRANSIT SH	PIER  AFRON  GSIDE (MLW)  BOVE MLW  INSTRUCTION TI  AP  UNLIGHTED	HANDLED: N/A  N/A  55'  25'  13'  MBER PILE TIM PROACH TO UPPE UNLI	WIDT  WIDT  USAB  LOAD  BER DECKED.  ER END.  GHTED	H OF PIER H OF APRO LE BERTHI CAP. PER OFFSHORE	NG SPACE_ SQ. FT . WHARF W	OPEN 55' N/A
STEAMSHIP LIN  DESCRIPTION PIER:  LENGTH OF  LENGTH OF  DEPTH ALON  HT. DECK A  TYPE OF CO  LIGHTED OR  TRANSIT SH	PIER  AFRON  GSIDE (MLW)  BOVE MLW  INSTRUCTION TI  UNLIGHTED  EDS: No.	HANDLED: N/A  N/A  55'  25'  13'  MBER PILE TIM PROACH TO UPPE UNLI	WIDT  WIDT  USAB  LOAD  BER DECKED.  ER END.  GHTED	H OF PIER H OF APRO LE BERTHI CAP. PER OFFSHORE	NG SPACE_ SQ. FT . WHARF W	OPEN 55' N/A
STEAMSHIP LIN  DESCRIPTION PIER:  LENGTH OF  LENGTH OF  DEPTH ALON  HT. DECK A  TYPE OF CO  LIGHTED OR  TRANSIT SH  TYPE OF CO  LENGTH AND  HEIGHT INS	PIER  AFRON  GSIDE (MLW)  BOVE MLW  INSTRUCTION TI  UNLIGHTED  EDS: No.	HANDLED: N/A  N/A  55'  25'  13'  MRER PILE, TIM PROACH TO UPPE UNLI  N/A  N/A  N/A  N/A	WIDT  WIDT  USAB  LOAD  BER DECKED.  ER END.  GHTED	H OF PIER H OF APROI LE BERTHI CAP. PER OFFSHORE	NG SPACE_ SQ. FT WHARF W	OPEN 55' N/A
STEAMSHIP LIN  DESCRIPTION PIER:  LENGTH OF  LENGTH OF  DEPTH ALON  HT. DECK A  TYPE OF CO  LIGHTED OR  TRANSIT SH  TYPE OF CO  LENGTH AND  HEIGHT INS  TOTAL CARG	PIER	N/A  N/A  55'  25'  13'  MRER PILE TIM PROACH TO UPPE UNLI  N/A  N/A  N/A  N/A  N/A  N/A	WIDT  WIDT  USAB  LOAD  BER DECKED.  ER END.  GHTED  No.	H OF PIER H OF APROI LE BERTHI CAP. PER OFFSHORE	NG SPACE_ SQ. FT WHARF W	OPEN 55' N/A

FACILITIES:			± .		векін	56&57
POWER AVAILABLE TO VESSELS:	VOLTAGE	NONE	CAPACITY	NONE		
EMERGENCY POWER ACCOMMODATIONS:		NONE				٠
WATER SUPPLY AVAILABLE TO VESSE	LS: AMOUNI	NONE				
CARGO HANDLING DEVICES:		NONE				•
ACCESS:						
RAILWAY:	•	NONE				
VEHICULAR: ASPHALT 10' WIDE						
	•••					
SECURITY:	en e					
WATCHMAN SECURITY Type/Agency		NONE	·	Hours	· <u>·</u>	
		MONE			1	•
LOCATION OF WATCHMAN		NONE				
FENCING Type	· · · · · · · · · · · · · · · · · · ·	CHAINLI	NK	Area	<del></del>	
	•	•		nrea	•	
FIRE FIGHTING FACILITIES:	· · · · · · · · · · · · · · · · · · ·	·				
SPRINKLER SYSTEM: AREA COVERED	)	NONE		· · · · · · · · · · · · · · · · · · ·	·	
FIRE ALARMS: (NO & LOCATION)		ONE				
PORTABLE EXTINGUISHERS (NO.)	NONE	_INSIDE _	. 2	01	TSIDE	
FOAM STOCK AND EQUIPMENT	THREE	40 GAL FO	MAC			
FIRE HYDRANTS (NO & LOCATION)	SIX AL	ONG EHARI	· ?			
FIRE HOSE (NO. & LOCATION		ALONG WHA				
Outsi			,		***************************************	
Insid	ie	N/A_				
REMARKS: ACCORDING TO ARCO THIS BARGE STORAGE.	s is no longi	ER AN OIL	HANDLING	FACILIT	Y BUT	IS USED
	. •.					•
					•	



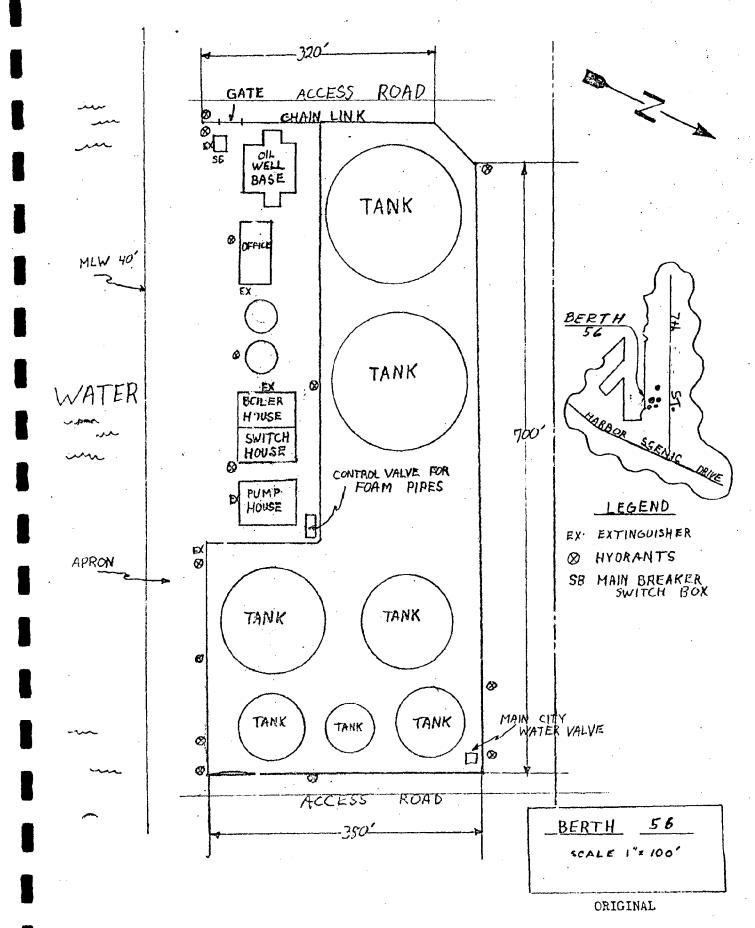


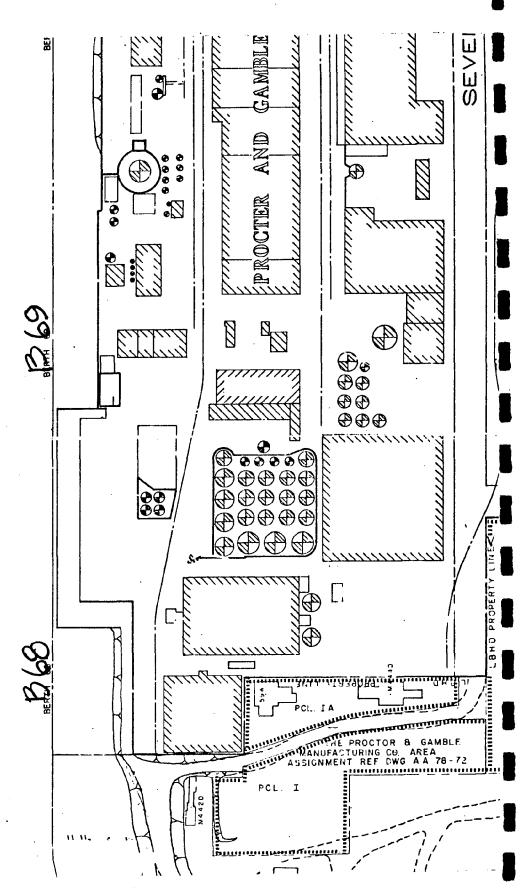
EXHIBIT 3

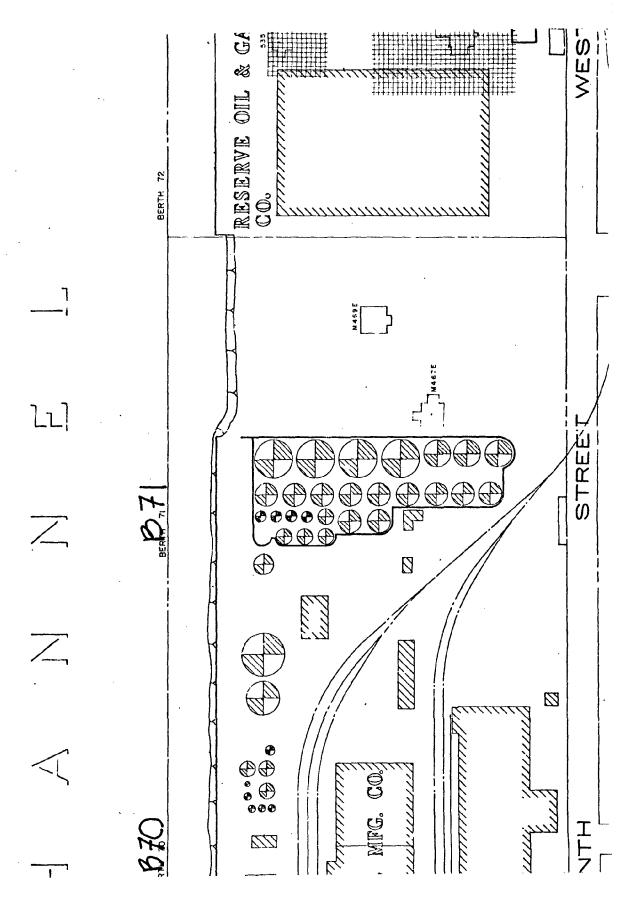
PROCTER & GAMBLE
BERTHS 68-70
EXISTING LIQUID BULK (CHEMICAL) FACILITIES

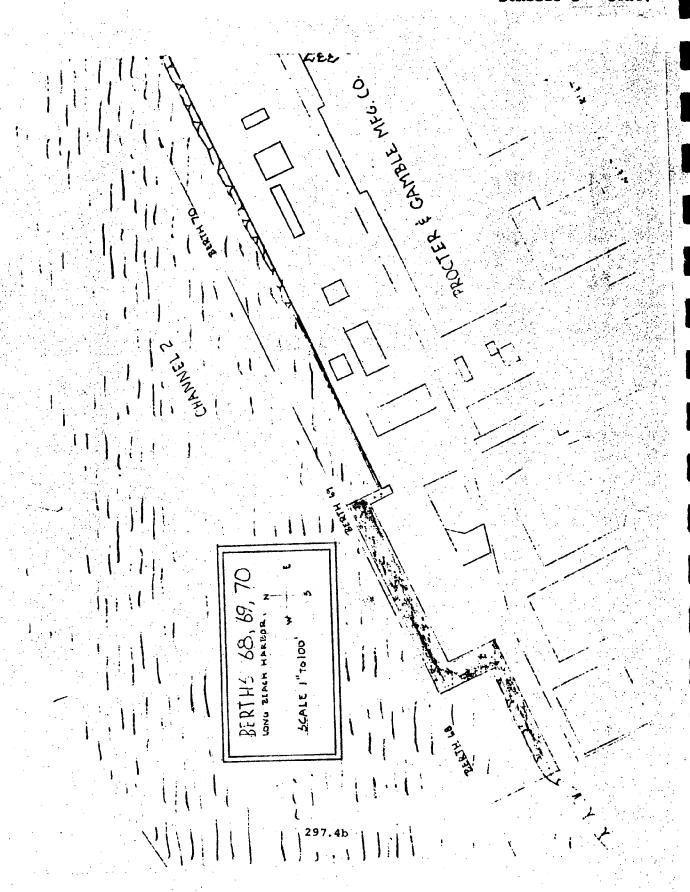
	•			Survey	Date:	40A T 191
FACILITY:	BERTH 68 -70	`.		PIER NO	•	
LOCATION:	SOUTH SIDE C	HANNEL 2 LON	G BEACH HARE	OR		
OWNED BY:	PROCTOR AND	CAMBLE MEG I	rn 432-	.6981		
	Name	SAMBLE PEG.	Day P	hone	Nigh	t Phone
	1601 W. 7TH S	STREET, LONG	BEACH			
	Businoss Addre	ess				,
OPERATED BY:	SAME AS ABOVE	E				
	Name		Day P	hone	Night	rnone
<u>.</u>	Business Addre	ess				
EMERGENCY PHON		•				
R. L. NELSON		PLANT MGR.	PROCTO	R & GAMBLE	(714)	846-4942
			<b></b>			
C. A. DITLEUS	SEN	TECH. ENG.	PROCTO	R & GAMBLE		894-6785
Name		Position		Firm	Emerg.	Phone
PURPOSE FOR WE	HICH USED:	RECIEPT OF	VEGETABLE O	IL, CAUSTIC	SODA,	ETC.
VESSELS ACCOM	MODATED:	N/A				
	ES REGULARLY HA					
DESCRIPTION		*				
PIER:			•	٠		
LENGTH OF I	PIER	285	WIDI	H OF PIER_	401	
LENGTH OF A	APRON	285	WIDT	TH OF APRON_	35'	
DEPTH ALONG	GSIDE (MLW)	40'	USAE	BLE BERTHING	SPACE_	7451
HT. DECK A	BOVE MLW	N/A_	LOAI	CAP. PER S	Q. FT.	250'
TYPE OF CO	NSTRUCTION	CONCRETE WA	LLS, ASPHAL	T SURFACED		
LIGHTED OR	UNLIGHTED	LIGHTED				····
TRANSIT SHI	EDS: No	NONE	No.		No	
TYPE OF COL	NSTRUCTION	NONE		·		
	ŴIDTH (FT)		ı			
HEIGHT INS	IDE (FT)	NONE				Managaria de la compansa de la comp
TOTAL CARGO	o floor (sq ft	NONE				<del></del>
LOAD CAPAC	ITY (#/ SQ FT)	NONE				
	UTHORIZED PARK	•				,

68-70

ILITIES: POWER AVAILABLE TO VESSELS: VOLT	AGE NONE	CAPACTTY	NI/A
			N <i>LR</i>
EMERGENCY POWER ACCOMMODATIONS:	NONE		
WATER SUPPLY AVAILABLE TO VESSELS:	AMOUNT NONE		
CARGO HANDLING DEVICES:	UNLOAD	ING MACHINE	
ACCESS:			
RAILWAY: YES, CONNECT WITH SOUTHE	RN PACIFIC CO.		The state of the s
VEHICULAR: VIA W. 7th STREET			
CUR1 TY:		•	
WATCHMAN SECURITY N/A Type/Agency			llours
LOCATION OF WATCHMAN N/A			
FENCING N/A			
Турк			Area
RE FIGHTING FACILITIES:			
SPRINKLER SYSTEM: AREA COVERED	HYDRANTS ONLY		
FIRE ALARMS: (NO & LOCATION)	n/a		
PORTABLE EXTINGUISHERS (NO.)	n/A Inside		OUTSI
FOAM STOCK AND EQUIPMENT	N/A		
FIRE HYDRANTS (NO & LOCATION)	N/A		
FIRE HOSE (NO. & LOCATION	n/a		
Outside	N/A		•
Inside			
REMARKS:		· · · · · · · · · · · · · · · · · · ·	
•			







## POWERINE BERTH 73

EXHIBIT 4

## EXISTING PETROLEUM FACILITIES

WHARF	CHARA	CTERI	STICS

Numbers of berths	1
Length of.berth(s) (ft)	800
Depth alongside wharf (ft)	36 (Maintenance Dredge to 40)
No. of cargo transfer points to ship	2
Size of connections (in)	6" & 8"
Maximum discharge rate (bbl/hr)	6"-15,000 8"-24,000

## TERMINAL CHARACTERISTICS

Berth backland (acres)

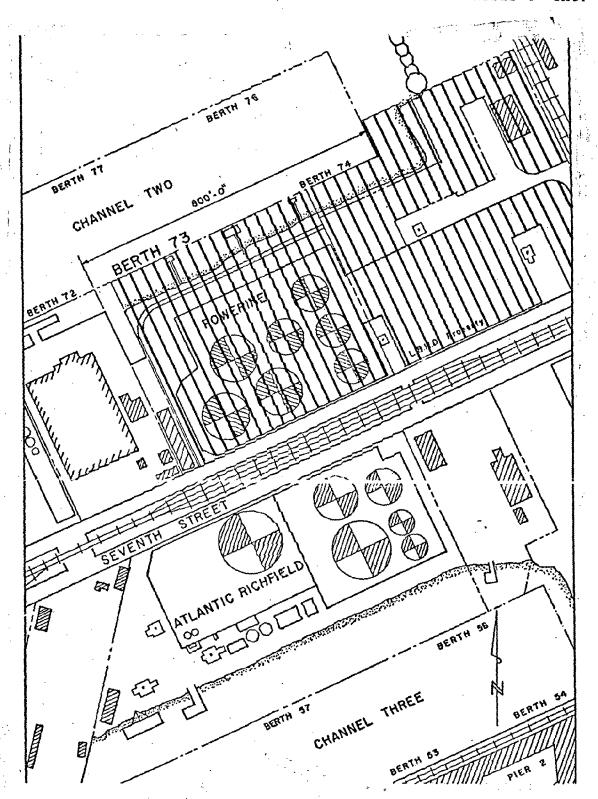
Crude storage capacity (bbl)	572,000
Refined storage capacity (bbl)	None
Distance to refinery (mi)	26
Number of pipelines	2
Size of pipeline(s) to refinery (in)	6" & 8"
Maximum pumping rate to refinery (bbl/hr)	6"-750 8"-1300
Ownership of facilities	Private wharf; Tank farm partially municipal
Leasing agreements	Port of the tank farm is leased

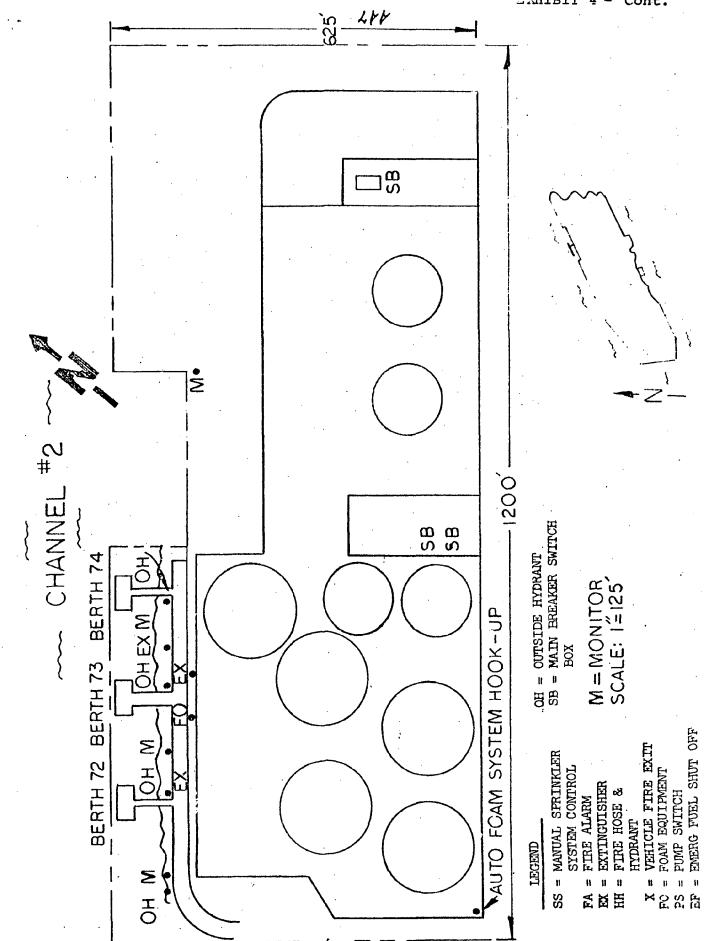
FACILITY: BERTH 73 PIER NO.  LOCATION: APPROX. 0.08 MILE FROM HEAD OF CHANNEL 2  OWNED BY: RESERVE OIL & GAS CO. 626-4108  Name Day Phone Night Phone  550 3. FLOWER. LOS ANGELES. CALIFORNIA  Business Address  OPERATED BY: POWERINE OIL CO 432-3327 432-7327  Name Day Phone Night Phone  1405 W. 7th Street, LONG BEACH, CA  Business Address  EMERGENCY PHONE NUMBERS:  G. LITCHETT FOREMAN 925-1138  RILL BURKE PIPELINE MGR. 944-6111  BOB HUNTER 925-0258  Name Position Fire Emerg. Phone  PURPOSE FOR WHICH USED: RECEIPT OF PETROLEUM PRODUCTS  VESSELS ACCOMMODATED:  STEAMSHIP LINES REGULARLY HANDLED: ALL  DESCRIPTION  PIER:  LENGTH OF PIER N/A WIDTH OF PIFR N/A  LENGTH OF APRON 559' WIDTH OF APRON OPEN  DEPTH ALONGSIDE (MLW) 36' USABLE BERTHING SPACE 350'  HT, DECK ABOVE MLW 12' LOAD CAP. PIER SQ. FT. SOOLBS. CONCRETE PILE, CONCRETE DECKED, OFFSHORE LOADING PLATFORM WITH 60' by 6' TYPE OF CONSTRUCTION TIMER APPROACH, TIMBER PENDER SYSTEM, 2 TIMBER PILE CONCRETE DECKED BREASTING DOLPHINS IN LINE WITH FACE.  LIGHTED OR URLIGHTED LIGHTED  TRANSIT SHEDS: No. N/A No. No.  TYPE OF CONSTRUCTION N/A  LENGTH AND WIDTH (FT) N/A  HEIGHT INSIDE (FT) N/A  LOAD CAPACITY (FV SQ FT) N/A  LOAD CAPACITY (FV SQ FT) N/A				Survey	Date: NOV 1 1976
OWNED BY:  RESERVE OIL & GAS CO.  Name  Day Phone  Night Phone  550 3. FLOWER, LOS ANGELES, CALIFORNIA  Business Address  OPERATED BY:  POWERINE OIL CO  Name  Day Phone  1405 W. 7th STREET, LONG BEACH, CA  Business Address  EMERGENCY PHONE NUMBERS:  G. LITCHETT  FOREMAN  POSITION  RILL RURKE  PIPELINE MGR.  925-0258  RILL RURKE  PIPELINE MGR.  944-6111  BOB HUNTER  POSITION  FIT:  Emerg. Phone  PURPOSE FOR WHICH USED:  RECEIPT OF PETROLEUM PRODUCTS  VESSELS ACCOMMODATED:  STEAMSHIP LINES REGULARLY HANDLED:  LENGTH OF PIER  N/A  LENGTH OF APRON  DEPTH ALONGSIDE (MLW)  10  MOTH OF APPON OPEN  DEPTH ALONGSIDE (MLW)  10  CONCRETE PILE, CONCRETE DECKED, OFFSHORE LOADING PLATFORM WITH 60' by 6' TYPE OF CONSTRUCTION TIMBER APPROACH, TIMBER FENDER SYSTEM, 2 TIMBER PILE CONCRETE DECKED BREASTING DOLPHINS IN LINE WITH FACE.  LIGHTED OR UNLIGHTED  TRANSIT SHEDS:  No.  NA  LENGTH AND WIDTH (FT)  N/A  HEIGHT INSIDE (FT)  N/A  TOTAL CARGO FLOOR (SQ FT)N/A	FACILITY:	BERTH 73		PIER NO	
Name    Day Phone   Night Phone	LOCATION:	APPROX. 0.0	8 MILE FROM HEAD	OF CHANNEL 2	
Name    Day Phone   Night Phone	OWNED BY:	RESERVE OIL	& GAS CO.	626-4108	
DURINES Address  OPERATED BY: POWERINE OIL CO		Name		Day Phone	Night Phone
OPERATED BY: POWERINE OIL CO 432-3327 432-7327    Name   Day Phone   Night Phone		550 3. FLOW	ER, LOS ANGELES,	CALIFORNIA	
Name  1405 W. 7th STREET, LONG BEACH, CA  Business Address  EMERGENCY PHONE NUMBERS:  G. LITCHETT FOREMAN 925-1138  BILL BURKE PIPELINE MGR. 944-6111  BOB HUNTER 925-0258  Name Position Fire Emerg. Phone  PURPOSE FOR WHICH USED: RECEIPT OF PETROLEUM PRODUCTS  VESSELS ACCOMMODATED:  STEAMSHIP LINES REGULARLY HANDLED: ALL  DESCRIPTION PIER:  LENGTH OF PIER N/A WIDTH OF PIFR N/A  LENGTH OF APRON 559' WIDTH OF APPON OPEN  DEPTH ALONGSIDE (NLW) 36' USABLE BERTHING SPACE 350'  HT. DECK ABOVE MLW 12' LOAD CAP. PER SQ. FT. 500LRS.  CONCRETE PILE, CONCRETE DECKED, OFFSHORE LOADING PLATFORM WITH 60' by 6' TYPE OF CONSTRUCTION TIMBER APPROACH, TIMBER FENDER SYSTEM, 2 TIMBER PILE  CONCRETE DECKED BREASTING DOLPHINS IN LINE WITH FACE.  LIGHTED TRANSIT SHEDS: No. N/A No. No.  TYPE OF CONSTRUCTION N/A  LENGTH AND WIDTH (FT) N/A  HEIGHT INSIDE (FT) N/A  TOTAL CARCO FLOOR (SQ FT)N/A		Business Add	ress	•	
	OPERATED BY:_				
Business Address EMERGENCY PHONE NUMBERS:  C. LITCHETT FOREMAN 925-1138  RILL BURKE PIPELINE MGR. 944-6111  BOB HUNTER 925-0258  Name Position Fire Emerg. Phone PURPOSE FOR WHICH USED: RECEIPT OF PETROLEUM PRODUCTS  VESSELS ACCOMMODATED:  STEAMSHIP LINES REGULARLY HANDLED: ALL  DESCRIPTION PIER:  LENGTH OF PIER N/A WIDTH OF PIFR N/A  LENGTH OF APRON 559' WIDTH OF APRON OPEN  DEPTH ALONGSIDE (MLW) 36' USABLE BERTHING SPACE 350'  HT. DECK ABOVE MLW 12' LOAD CAP. PER SQ. FT. 500LBS.  CONCRETE PILE, CONCRETE DECKED, OFFSHORE LOADING PLATFORM WITH 60' by 6' TYPE OF CONSTRUCTION TIMBER APPROACH, TIMBER FENDER SYSTEM, 2 TIMBER PILE CONCRETE DECKED BREASTING DOLPHINS IN LINE WITH FACE. LIGHTED TRANSIT SHEDS: No. N/A No. No.  TYPE OF CONSTRUCTION N/A  LENGTH AND WIDTH (FT) N/A  HEIGHT INSIDE (FT) N/A  TOTAL CARGO FLOOR (SQ FT)N/A		Name	•	Day Phone	Night Phone
EMERGENCY PHONE NUMBERS:  G. LITCHETT FOREMAN 925-1138  BILL BURKE PIPELINE MGR. 944-6111  BOB HUNTER 925-0258  Name Position Fire Emerg. Phone PURPOSE FOR WHICH USED: RECEIPT OF PETROLEUM PRODUCTS  VESSELS ACCOMMODATED:  STEAMSHIP LINES REGULARLY HANDLED: ALL  DESCRIPTION PIER:  LENGTH OF PIER N/A WIDTH OF PIFR N/A  LENGTH OF APRON 559' WIDTH OF APRON OPEN  DEPTH ALONGSIDE (MLW) 36' USABLE BERTHING SPACE 350'  HT. DECK ABOVE MLW 12' LOAD CAP. PER SQ. FT. 500LBS.  CONCRETE PILE, CONCRETE DECKED, OFFSHORE LOADING PLATFORM WITH 60' by 6' TYPE OF CONSTRUCTION TIMBER APPROACH, TIMBER FENDER SYSTEM, 2 TIMBER PILE  CONCRETE DECKED BREASTING DOLPHINS IN LINE WITH FACE.  LIGHTED  TRANSIT SHEDS: No. N/A No. No.  TYPE OF CONSTRUCTION N/A  LENGTH AND WIDTH (FT) N/A  HEIGHT INSIDE (FT) N/A  TOTAL CARGO FLOOR (SQ FT)N/A				CH, CA	
RILL BURKE PIPELINE MCR. 944-6111  BOB HUNTER 925-0258  Name Position Fire Emerg. Phone  PURPOSE FOR WHICH USED: RECEIPT OF PETROLEUM PRODUCTS  VESSELS ACCOMMODATED:  STEAMSHIP LINES REGULARLY HANDLED: ALL  DESCRIPTION  PIER:  LENGTH OF PIER N/A WIDTH OF PIFR N/A  LENGTH OF APRON 559' WIDTH OF APRON OPEN  DEPTH ALONGSIDE (MLW) 36' USABLE BERTHING SPACE 350'  HT. DECK ABOVE MLW 12' LOAD CAP. PER SQ. FT. 500LBS.  CONCRETE PILE, CONCRETE DECKED, OFFSHORE LOADING PLATFORM WITH 60' by 6' TYPE OF CONSTRUCTION TIMBER APPROACH, TIMBER FENDER SYSTEM, 2 TIMBER PILE  CONCRETE DECKED BREASTING DOLPHINS IN LINE WITH FACE.  LIGHTED OR UNLIGHTED LIGHTED  TRANSIT SHEDS: No. N/A No. No.  TYPE OF CONSTRUCTION N/A  LENGTH AND WIDTH (FT) N/A  HEIGHT INSIDE (FT) N/A  TOTAL CARGO FLOOR (SQ FT)N/A	emergency phó		ress		
Name Position Fire Emerg. Phone  PURPOSE FOR WHICH USED: RECEIPT OF PETROLEUM PRODUCTS  VESSELS ACCOMMODATED:  STEAMSHIP LINES REGULARLY HANDLED: ALL  DESCRIPTION PIER:  LENGTH OF PIER N/A WIDTH OF PIFR N/A  LENGTH OF APRON 559' WIDTH OF APPON OPEN  DEPTH ALONGSIDE (MLW) 36' USABLE BERTHING SPACE 350'  HT. DECK ABOVE MLW 12' LOAD CAP. PER SQ. FT. 500LBS.  CONCRETE PILE, CONCRETE DECKED, OFFSHORE LOADING PLATFORM WITH 60' by 6' TYPE OF CONSTRUCTION TIMBER APPROACH, TIMBER FENDER SYSTEM, 2 TIMBER PILE  CONCRETE DECKED BREASTING DOLPHINS IN LINE WITH FACE.  LIGHTED OR UNLIGHTED LIGHTED  TRANSIT SHEDS: No. N/A No. No.  TYPE OF CONSTRUCTION N/A  LENGTH AND WIDTH (FT) N/A  HEIGHT INSIDE (FT) N/A  TOTAL CARGO FLOOR (SQ FT)N/A	G. LITCHETT		FOREMAN		925-1138
Name Position Fire Emerg. Phone PURPOSE FOR WHICH USED: RECEIPT OF PETROLEUM PRODUCTS  VESSELS ACCOMMODATED:  STEAMSHIP LINES REGULARLY HANDLED: ALL  DESCRIPTION PIER:  LENGTH OF PIER N/A WIDTH OF PIFR N/A  LENGTH OF APRON 559' WIDTH OF APPON OPEN  DEPTH ALONGSIDE (NLW) 36' USABLE BERTHING SPACE 350'  HT. DECK ABOVE MLW 12' LOAD CAP. PER SO. FT. 500LBS.  CONCRETE PILE, CONCRETE DECKED, OFFSHORE LOADING PLATFORM WITH 60' by 6' TYPE OF CONSTRUCTION TIMBER APPROACH, TIMBER FENDER SYSTEM, 2 TIMBER PILE  CONCRETE DECKED BREASTING DOLPHINS IN LINE WITH FACE.  LIGHTED TRANSIT SHEDS: No. N/A No. No.  TYPE OF CONSTRUCTION N/A  LENGTH AND WIDTH (FT) N/A  HEIGHT INSIDE (FT) N/A  TOTAL CARGO FLOOR (SQ FT)N/A	RILL BURKE		PIPELINE MGR.		944-6111
Name Position Fire Emerg. Phone PURPOSE FOR WHICH USED: RECEIPT OF PETROLEUM PRODUCTS  VESSELS ACCOMMODATED:  STEAMSHIP LINES REGULARLY HANDLED: ALL  DESCRIPTION PIER:  LENGTH OF PIER N/A WIDTH OF PIFR N/A  LENGTH OF APRON 559' WIDTH OF APPON OPEN  DEPTH ALONGSIDE (MLW) 36' USABLE BERTHING SPACE 350'  HT. DECK ABOVE MLW 12' LOAD CAP. PER SO. FT. 500LBS.  CONCRETE PILE, CONCRETE DECKED, OFFSHORE LOADING PLATFORM WITH 60' by 6' TYPE OF CONSTRUCTION TIMBER APPROACH, TIMBER FENDER SYSTEM, 2 TIMBER PILE  CONCRETE DECKED BREASTING DOLPHINS IN LINE WITH FACE.  LIGHTED  TRANSIT SHEDS: No. N/A No. No.  TYPE OF CONSTRUCTION N/A  LENGTH AND WIDTH (FT) N/A  HEIGHT INSIDE (FT) N/A  TOTAL CARGO FLOOR (SQ FT)N/A	BOB HUNTER	•			925-0258
VESSELS ACCOMMODATED:  STEAMSHIP LINES REGULARLY HANDLED: ALL  DESCRIPTION  PIER:  LENGTH OF PIER N/A WIDTH OF PIFR N/A  LENGTH OF APRON 559' WIDTH OF APPON OPEN  DEPTH ALONGSIDE (MLW) 36' USABLE BERTHING SPACE 350'  HT. DECK ABOVE MLW 12' LOAD CAP. PER SQ. FT. 500LBS.  CONCRETE PILE, CONCRETE DECKED, OFFSHORE LOADING PLATFORM WITH 60' by 6' TYPE OF CONSTRUCTION TIMBER APPROACH, TIMBER FENDER SYSTEM, 2 TIMBER PILE  CONCRETE DECKED BREASTING DOLPHINS IN LINE WITH FACE.  LIGHTED  TRANSIT SHEDS: No. N/A No. No.  TYPE OF CONSTRUCTION N/A  LENGTH AND WIDTH (FT) N/A  HEIGHT INSIDE (FT) N/A  TOTAL CARGO FLOOR (SQ FT)N/A			Position	Firm	Emerg. Phone
VESSELS ACCOMMODATED:  STEAMSHIP LINES REGULARLY HANDLED: ALL  DESCRIPTION  PIER:  LENGTH OF PIER N/A WIDTH OF PIFR N/A  LENGTH OF APRON 559' WIDTH OF APPON OPEN  DEPTH ALONGSIDE (MLW) 36' USABLE BERTHING SPACE 350'  HT. DECK ABOVE MLW 12' LOAD CAP. PER SQ. FT. 500LBS.  CONCRETE PILE, CONCRETE DECKED, OFFSHORE LOADING PLATFORM WITH 60' by 6' TYPE OF CONSTRUCTION TIMBER APPROACH, TIMBER FENDER SYSTEM, 2 TIMBER PILE  CONCRETE DECKED BREASTING DOLPHINS IN LINE WITH FACE.  LIGHTED  TRANSIT SHEDS: No. N/A No. No.  TYPE OF CONSTRUCTION N/A  LENGTH AND WIDTH (FT) N/A  HEIGHT INSIDE (FT) N/A  TOTAL CARGO FLOOR (SQ FT)N/A	PURPOSE FOR W	HICH USED:	RECEIPT OF PETR	OLEUM PRODUCTS	
DESCRIPTION PIER:  LENGTH OF PIER  N/A  WIDTH OF PIER  N/A  WIDTH OF PIER  N/A  WIDTH OF PIER  N/A  WIDTH OF PIER  WIDTH OF APPON OPEN  DEPTH ALONGSIDE (MLW)  36'  USABLE BERTHING SPACE 350'  HT. DECK ABOVE MLW  12'  LOAD CAP. PER SO. FT. 500LBS.  CONCRETE PILE, CONCRETE DECKED, OFFSHORE LOADING PLATFORM WITH 60' by 6' TYPE OF CONSTRUCTION TIMBER APPROACH, TIMBER FENDER SYSTEM, 2 TIMBER PILE  CONCRETE DECKED BREASTING DOLPHINS IN LINE WITH FACE.  LIGHTED OR UNLIGHTED  TRANSIT SHEDS:  No. N/A  No. No.  TYPE OF CONSTRUCTION  N/A  LENGTH AND WIDTH (FT)  N/A  HEIGHT INSIDE (FT)  N/A  TOTAL CARGO FLOOR (SQ FT)N/A					
LENGTH OF APRON 559' WIDTH OF APPON OPEN  DEPTH ALONGSIDE (MLW) 36' USABLE BERTHING SPACE 350'  HT. DECK ABOVE MLW 12' LOAD CAP. PER SO. FT. 500LBS.  CONCRETE PILE, CONCRETE DECKED, OFFSHORE LOADING PLATFORM WITH 60' by 6' TYPE OF CONSTRUCTION TIMBER APPROACH, TIMBER FENDER SYSTEM, 2 TIMBER PILE  CONCRETE DECKED BREASTING DOLPHINS IN LINE WITH FACE.  LIGHTED TRANSIT SHEDS: No. N/A No. No.  TYPE OF CONSTRUCTION N/A  LENGTH AND WIDTH (FT) N/A  HEIGHT INSIDE (FT) N/A  TOTAL CARGO FLOOR (SQ FT)N/A	DESCRIPTION PIER:		HANDLED: ALL		
DEPTH ALONGSIDE (MLW) 36' USABLE BERTHING SPACE 350'  HT. DECK ABOVE MLW 12' LOAD CAP. PER SQ. FT. 500LBS  CONCRETE PILE, CONCRETE DECKED, OFFSHORE LOADING PLATFORM WITH 60' by 6'  TYPE OF CONSTRUCTION TIMBER APPROACH, TIMBER FENDER SYSTEM, 2 TIMBER PILE  CONCRETE DECKED BREASTING DOLPHINS IN LINE WITH FACE.  LIGHTED OR UNLIGHTED LIGHTED  TRANSIT SHEDS: No. N/A No. No.  TYPE OF CONSTRUCTION N/A  LENGTH AND WIDTH (FT) N/A  HEIGHT INSIDE (FT) N/A  TOTAL CARGO FLOOR (SQ FT)N/A	LENGTH OF	PIER	N/A	WIDTH OF PIFR	N/A
HT. DECK ABOVE MLW 12' LOAD CAP. PER SO. FT. 500LBS.  CONCRETE PILE, CONCRETE DECKED, OFFSHORE LOADING PLATFORM WITH 60' by 6'  TYPE OF CONSTRUCTION TIMBER APPROACH, TIMBER FENDER SYSTEM, 2 TIMBER PILE  CONCRETE DECKED BREASTING DOLPHINS IN LINE WITH FACE.  LIGHTED LIGHTED  TRANSIT SHEDS: No. N/A No. No.  TYPE OF CONSTRUCTION N/A  LENGTH AND WIDTH (FT) N/A  HEIGHT INSIDE (FT) N/A  TOTAL CARGO FLOOR (SQ FT)N/A	LENGTH OF	APRON	559'	WIDTH OF APPON	OPEN
CONCRETE PILE, CONCRETE DECKED, OFFSHORE LOADING PLATFORM WITH 60' by 6' TYPE OF CONSTRUCTION TIMBER APPROACH, TIMBER FENDER SYSTEM, 2 TIMBER PILE CONCRETE DECKED BREASTING DOLPHINS IN LINE WITH FACE. LIGHTED LIGHTED  TRANSIT SHEDS:  No. N/A  No. No.  TYPE OF CONSTRUCTION N/A  LENGTH AND WIDTH (FT) N/A  HEIGHT INSIDE (FT) N/A  TOTAL CARGO FLOOR (SQ FT)N/A	DEPTH ALON	GSIDE (MLW)_	36'	USABLE BERTHING	SPACE 350'
TYPE OF CONSTRUCTION N/A  LENGTH AND WIDTH (FT) N/A  HEIGHT INSIDE (FT) N/A  TOTAL CARGO FLOOR (SQ FT)N/A	CONCRETE INTERPRETED TYPE OF CONCRETE INTERPRETED TO C	PILE, CONCRET INSTRUCTION TI DECKED BREAST	E DECKED, OFFSHOR MBER APPROACH, TI ING DOLPHINS IN L	E LOADING PLATFORM MBER FENDER SYSTEM INE WITH FACE.	WITH 60' by 6', 2 TIMBER PILE,
HEIGHT INSIDE (FT) N/A  TOTAL CARGO FLOOR (SQ FT)N/A	TRANSIT SH	IEDS: No.	N/ANo	·	No.
HEIGHT INSIDE (FT) N/A  TOTAL CARGO FLOOR (SQ FT)N/A	TYPE OF CO	NSTRUCTION _	N/A		•
HEIGHT INSIDE (FT) N/A  TOTAL CARGO FLOOR (SQ FT)N/A	LENGTH AND	WIDTH (FT)	N/A		
TOTAL CARGO FLOOR (SQ FT)N/A	HEIGHT INS	SIDE (FT)	N/A		
LOAD CAPACITY (#/ SQ FT) N/A				<del></del>	
	LOAD CAPAC	:: (#/ SQ F	r) <sub>N/A</sub>		

BERTH	73
FACILITIES:  POWER AVAILABLE TO VESSELS:  VOLTAGE SINGLE PHASECAPACITY 60 CYCLE	
EMERGENCY POWER ACCOMMODATIONS: NONE	
WATER SUPPLY AVAILABLE TO VESSELS: AMOUNT THROUGH 2" LINES	
CARGO HANDLING DEVICES: ELECTRIC HOS HANDLING MASTS AND BOOM DERRICKS, EACH W	ITH
24' BOOMS	•
ACCESS:	
RATI.WAY: NONE	
VEHICULAR: VIA WEST 7th ST. ASPHALT 40' WIDE, FM PICO AVE. &LB FWY	
SECURITY:	
WATCHMAN SECURITY FOX DURING LOADING TIMES ONLY Type/Agency !lours	
LOCATION OF WATCHMAN MAIN GATE	•
FENCING CHAINLINK CONCRETE WALL Type Area	
FIRE FIGHTING FACILITIES:	
SPRINKLER SYSTEM: AREA COVERED N/A	
FIRE ALARMS: (NO & LOCATION) NONE	•
PORTABLE EXTINGUISHERS (NO.) N/A INSIDE 3 OUTSIDE FOAM SYSTEM, WATER PUMP, FIRE CONNECTIONS, 2 MONITOR FOAM STOCK AND EQUIPMENT AND HOSE	S HYDRANTS
FIRE HYDRANTS (NO & LOCATION) SEE DIAGRAM	`.
FIRE HOSE (NO. & LOCATION NONE Outside N/A	
Inside	
REMARKS: 2-10", 1-8" and 3-6" PIPELINES EXTEND FROM LOADING PLATFORM TO 9 S TANKS, TOTAL CAP. 575,000 BARRELS. ALSO PIPELINES EXTEND TO BERTHS A,B,C,I BUNKER FUEL TO VESSELS MOORED ALONGSIDE.	STEEL STRONGS FOR SUPPLYING
PIER INSPECTOR R.K. WIEGERT CWO 2 CGRG REP. 11-88870	

				Surv	vey Date:	1 1976
FACILITY:	BERTH 74				R NO.	
LOCATION:	APPROX. 0.0	MILES FROM H	EAD OF	CHANNEL2	· · · · · · · · · · · · · · · · · · ·	
OWNED BY:	CITY OF LONG	G BEACH	Ď	437-0041 Pay Phone	. Nigh	SAME t Phone
	PO BOX 570 Business Add	LONG BEACH, CA	· · · · · · · · · · · · · · · · · · ·	·		
OPERATED BY:_	POWERLINE O	IL CO.	·	432-3327 Pay Phone	432 Night	
EMERGENCY PHO	1405 WEST 7 Business Add	th ST., LONG B		•		
G. LITCHETT						925-1138
BILL BURKE		PIPELINE MGR	•			944-6111
BOB HUNTER Name		FOREMEN Position		Firm	Emerg.	925-0258 Phone
PURPOSE FOR W	HICH USED:	RECEIPT OF C	RUDE OI		_	
VESSELS ACCOM	MODATED:	o1		·		
STEAMSHIP LIN	IES REGULARLY	HANDLED: ALL			- <del> </del>	
DESCRIPTION PIER:		en e	** *** **			
LENGTH OF	PIER	N/A		WIDTH OF PI	ERN/A	
LENGTH OF	APRON	559'		WIDTH OF AP	RON_OPEN	
DEPTH ALON	GSIDE (MLW)	36"	<del></del>	USABLE BEKT	HING SPACE_	350'
TYPE OF CO	INSTRUCTION AP	12' ECKED, OFFSHOR PROACH. TIMBE IN LINE WITH LIGH	FACE.	ER SYSTEM, 2	TIMBER PI	LE, CONCRETE
TRANSIT SH	IEDS: No	N/A	No	······································	No	
TYPE OF CO	ONSTRUCTION _	N/A	<del></del>		<del></del> , <del></del>	
LENGTH AND	WIDTH (FT)	N/A	··		· · · · · · · · · · · · · · · · · · ·	
		N/A				
		T) N/A				
		)_N/A				
LUCATION OF A	NUTHORIZED PAR	KING WEST END O	F FIREV	VALL, BETWEE	en dock and	FIREWALL

	10.4	BEP'	TH 74
ACILITIES: POWER AVAILABLE TO VESSELS:	VOLTAGE AC110	CAPACITY 60 CYCLE	
EMERGENCY POWER ACCOMMODATION	NS: NONE PHA	SE	
WATER SUPPLY AVAILABLE TO VES	SSELS: AMOUNT THRO	OUCH 2" LINES	
CARGO HANDLING DEVICES:	NONE		
ACCESS:			
RAILWAY: NONE			
VEHICULAR: VIA W. 7th ST., AS	PHALT 40' WIDE FM P	ICO AVE. & LB FWY	, Man
SECURITY:	•	•	
WATCHMAN SECURITY	AL SECURITY	DURING LOADING NIMES	ONLY
Type/Agency	y	Hours	
LOCATION OF WATCHMAN MAIN C	GATE		_
FENCING GATE ENTRANCE, CHA	AINLINK, CONCRETE FI	REWALL Area	
FIRE FIGHTING FACILITIES:		nica	
		•	
SPRINKLER SYSTEM: AREA COVE			<del></del>
FIRE ALARMS: (NO & LOCATION)	NONE	an a	
PORTABLE EXTINGUISHERS (NO.)	N/AINSI	DE 3 CUTSI	DE
FOAM STOCK AND EQUIPMENT FO	AM SYSTEM, WATER PUNDRANTS AND HOSE	P, FIRE BOAT CONNECTIONS	2 MONITORS,
FIRE HYDRANTS (NO & LOCATION		RAM)	
FIRE HOSE (NO. & LOCATION Ou	tside	:	
In	N/A		
REMARKS: 2-10", 1-8" and 3-6 TANKS, TOTAL CAPACI FOR SUPPLYING BUNKE	" PIPELINES EXTEND I TY 575,000 BARRELS, R FUEL TO VESSELS M	ALSO PIPELINE EXTEND TO	9 STEEL STORAGE BERTHS A,B,C,D
PIER INSPECTOR R.H. DULIN PS	SC	CGRG REP. 11-2*870	
T THE THOU HOTON THE TOTAL STATE			





## ARCO BERTHS 76-79 TERMINAL TWO

### EXISTING PETROLEUM FACILITIES

WHARF	CHARACTERISTICS

Length of berth(s) (ft) 2190

Depth alongside wharf (ft) 40

No. of cargo transfer

points to ship

Size of connections (in) Ranging in size from 6" to 16"

Maximum discharge rate 30,000 maximum 6" - 1500 14" - 15,000

TERMINAL CHARACTERISTICS

Berth backland (acres) 20 Ac.

Crude storage capacity 850,000 (bbl)

Refined storage capacity 500,000 for refined at Terminal Two plus (bbl) 500,000 for either crude or refined at Terminal Three on 7th Street

Distance to refinery (mi) 3.5

Number of pipelines

Size of pipeline(s) to 10" 12" & 14" refinery (in) also 2-14" & 1-8" to Terminal Three

3

Maximum pumping rate to 5,000 refinery (bb1/hr) 5,000 also pumping rate to 7th is 10,000 max.

refinery (bbl/hr) also pumping rate to 7th is 10,000 max

Ownership of facilities Part municipal, part private

Leasing agreements Lease on portion municipal owned

			Su	rvey Date:	NOV 1 1976
FACILITY:	BERTH 76 (AR	CO Terminal 2)		Er No.	
LOCATION:	NEAR HEAD OF	CHANNEL 2			
OWNED BY:	ATLANTIC RIC	HFIELD	432-5701 Day Phone	Nigl	432-8927 ht Phone
·	1300 W. 8th Business Addre	ST. LONG BEACH	90813	<del></del>	
OPERATED BY:	Atlantic Ric	hfield .	436-9071 Day Phone		436-9074 t Phone
EMERGENCY PH	1300 W. 8th Business Addre	ST., LONG BEACH	, CA 90813		
A. R. WESSL	EN	SUPT OF OPS	ATLANTIC RIC	н. (213)	596-2021
J. R. GEARI	NG	SUPV. OF OPS	<u>/</u>	(714)	527-2082
FOREMAN ON	DUTY		11 11		436-9074
Name		Position	Firm	n Emerg	. Phone
•	OMMODATED:		LD, HENINTER	NATIONSL, *	<u> </u>
DESCRIPTION PIER:					ěť )
LENGTH O	F PIER_	3001	WIDTH OF F	IER OPEN	
LENGTH O	F APRON	3001	WIDTH OF A	APRON OPEN	
DEPTH ALC	ONGSIDE (MLW)	40*	USABLE BEF	RTHING SPACE	3001
CONCRETE TYPE OF C	ABOVE MLW	DECKED, MARGINA ROACHES AND 3 P KHEAD WITH SOLI	L OFFSHORE WHA IPELINE TRESTL D FILL	RF WITH TWO ES EXTENDIN	31' WIDE G FROM A STEE
	SHEDS: No				
TYPE OF	CONSTRUCTION	N/A		· · ·	
LENGTH A	ND WIDTH (FT)	N/A			<del></del>
HEIGHT I	NSIDE (FT)	N/A			
TOTAL CA	RGO FLOOR (SQ FT	) <sub>N/A</sub>			
	ACITY (#/ SQ FT)				
LOCATION OF	AUTHORIZED PAPK	INGN FAST SIDE O	F MAIN BUILDIN	G NEAR ENTR	ANCE

BERTII 76 FACILITIES: POWER AVAILABLE TO VESSELS: VOLTAGE NONE CAPAC1TY EMERGENCY POWER ACCOMMODATIONS: NONE WATER SUPPLY AVAILABLE TO VESSELS: AMOUNT THROUGH 3" LINE CARGO HANDLING DEVICES: 6-8" HYDRAULIC OPERATED MARINE SWIVEL-JOINTED LOADING ARMS MOUNTED ON ELEVATED STEEL STRUCTURE ON WHARF AND 2 PNEUMATIC OPERATED MAST & BOOM CRANES WITH 27' BOOMS FOR HANDLING HOSES & SUPPLIES. ACCESS: RATIWAY: NONE VEHICULAR: VIA W. 8th ST., ASPHALT 48' WIDE, FM PICO AVE., & LB FWY SECURITY: COMPANY WATCHMAN/AMERICAN PLANT SECURITY SIXTEEN Type/Agency Hours LOCATION OF WATCHMAN ROVING & GATE WATCH FENCING CHAINLINK AROUND ENTIRE FACILITY Type FIRE FIGHTING FACILITIES: SPRINKLER SYSTEM: AREA COVERED FIRE ALARMS: (NO & LOCATION) 16 THROUGHOUT YD (SEE DIAGRAM) PORTABLE PORTABLE EXTINGUISHERS (NO.) OUTSIDE DRY CHEMICAL INSIDE ALL SITES FOAM STOCK AND EQUIPMENT PORTABLE 150 LB. FOAM APPLIANCE/ FOAM EQUIP. MAIN GATE ENTRANCE FIRE HYDRANTS (NO & LOCATION) 35 THROUGHOUT YD(SEE DIAGRAM) FIRE HOSE (NO. & LOCATION 9 PLUS PORTABLE UNITS, THROUGHOUT YD (SEE DIAGRAM) Outside N/A Inside 2-12", 7-8", 5-6" PIPELINES EXTEND FM WHARF TO 33 STEEL STORAGE TANKS IN REAR OF REFINERY REMARKS: NOS. 58, 59, &60, TOTAL CAP. 1,800,000 BARRELS, TANKS ARE ALSO CONNECTED BY PIPE-

SPACE.

PIER INSPECTOR H.H. DULIM PSC CGRG REP. 11-82570

LINES WITH 6 STEEL STORAGE TANKS, TOTAL CAP. 400,000 BARRELS, LOCATED IN REAR OF BERTH 57 ON CHANNEL 3. FACE OF WHARVES ARE IN LINE AND PROVIDE FOR A TOTAL OF 1,645' OF BERTHING

FACILITY: BERTH 77 (ARCO TER	MINAL #2)		NO.	
		<del></del>	1101	<del></del>
LOCATION: APPRX. 0.16 MILE F	M HEAD OF CHANG	NEL Z		
OWNED BY: CITY OF LONG BEACH			·	DI
Name	D	ay Phone	Night	rnone
Business Address		•		· · · · · · · · · · · · · · · · · · ·
PERATED BY: ATLANTIC RICHFIELD		436-9071		36-9074
Name	D	ay Phone	Night	Phone
1300 W. 8th ST., LO	ONG BEACH, CA	90813	·	
Business Address MERGENCY PHONE NUMBERS:				
A. R. WESSLEN SUPT.	OF OPS ATL	ANTIC RICH.	(213) 5	96-2021
J. GEARING SUPV.	OF OPS		(714) 5	27-2082
FOREMAN ON DUTY	11		(213) 4	36-9074
	ition	Firm	Emerg.	
	IFT OF CRODE OF			
TESSELS ACCOMMODATED: 4 TEAMSHIP LINES REGULARLY HANDLED				S STEAM
ESSELS ACCOMMODATED: 4 TEAMSHIP LINES REGULARLY HANDLED				S STEAM
ESSELS ACCOMMODATED: 4 TEAMSHIP LINES REGULARLY HANDLED ESCRIPTION	RICHFIELD, HEN		ONSL, ATLA	S STEAM:
TESSELS ACCOMMODATED: 4  STEAMSHIP LINES REGULARLY HANDLED ( DESCRIPTION PIER:	RICHFIELD, HEN	DINTERNATI	ONSL, ATLA	S STEAM!
LENGTH OF PIER N/A	RICHFIELD, HEN	DINTERNATI	ONSL, ATLA R N/A ON open	
TESSELS ACCOMMODATED: 4  STEAMSHIP LINES REGULARLY HANDLED  DESCRIPTION PIER: LENGTH OF PIER N/A  LENGTH OF APRON 300'	PRICHFIELD, HEND, MARGINAL OFF ES & 3 PIPELINE WITH SOILD FIL	WIDTH OF PIEN WIDTH OF APRO USABLE BERTHI LOAD CAP. PER SHORE WHARF TRESTLES EX	ONSL, ATLA  NO OPEN  ON SPACE  SO, FT.  WITH TWO 3  TENDING FR	300' 250LBS 1' WIDE OM A ST
TRANSIT SHEDS:  ATEAMSHIP LINES REGULARLY HANDLED  DESCRIPTION  PIER:  LENGTH OF PIER  N/A  LENGTH OF APRON  300'  A3'  HT. DECK ABOVE MLW  14'  CONCRETE PILE, CONCRETE DECKED  TYPE OF CONSTRUCTION APPROACHE  SHEET PILE, CELLULAR BULKHEAD  LIGHTED OR UNLIGHTED	D, MARGINAL OFFES & 3 PIPELINE WITH SOILD FILL LIGHTED	WIDTH OF PIEN WIDTH OF APRO USABLE BERTHI LOAD CAP. PER SHORE WHARF TRESTLES EX	ONSL, ATLA  NO open  ON SPACE  R SO. FT.  WITH TWO 3 CTENDING FR	300' 250LBS 1' WIDE OM A STI
ESSELS ACCOMMODATED: 4  TEAMSHIP LINES REGULARLY HANDLED: ESCRIPTION PIER:  LENGTH OF PIER N/A  LENGTH OF APRON 300'  DEPTH ALONGSIDE (MLW) 43'  HT. DECK ABOVE MLW 14' CONCRETE PILE, CONCRETE DECKED TYPE OF CONSTRUCTION APPROACHE SHEET PILE, CELLULAR BULKHEAD LIGHTED OR UNLIGHTED  TRANSIT SHEDS: No. N/A  TYPE OF CONSTRUCTION N/A	D, MARGINAL OFFES & 3 PIPELINE WITH SOILD FILL LIGHTED	WIDTH OF PIES WIDTH OF APRO USABLE BERTHS LOAD CAP. PES SHORE WHARF TRESTLES EX	ONSL, ATLA  NO open  ON SPACE  ON SPACE  ON THE TWO 3  TENDING FR	300' 250LBS 1' WIDE OM A STI
ESSELS ACCOMMODATED: 4  TEAMSHIP LINES REGULARLY HANDLED  ESCRIPTION PIER:  LENGTH OF PIER N/A  LENGTH OF APRON 300'  DEPTH ALONGSIDE (MLW) 43'  HT. DECK ABOVE MLW 14'  CONCRETE PILE, CONCRETE DECKED TYPE OF CONSTRUCTION APPROACHE SHEET PILE, CELLULAR BULKHEAD LIGHTED OR UNLIGHTED  TRANSIT SHEDS: No. N/A  TYPE OF CONSTRUCTION N/A  LENGTH AND WIDTH (FT) N/A	O, MARGINAL OFFES & 3 PIPELINE WITH SOILD FIL LIGHTED	WIDTH OF PIEN WIDTH OF APRO USABLE BERTH LOAD CAP. PER SHORE WHARF TRESTLES EX	ONSL, ATLA  ON open  ING SPACE  R SO. FT.  WITH TWO 3  TENDING FR	300' 250LBS 1' WIDE OM A STI
TEAMSHIP LINES REGULARLY HANDLED DESCRIPTION PIER:  LENGTH OF PIER  LENGTH OF APRON  DEPTH ALONGSIDE (MLW)  CONCRETE PILE, CONCRETE DECKED TYPE OF CONSTRUCTION APPROACHE SHEET PILE, CELLULAR BULKHEAD LIGHTED OR UNLIGHTED  TRANSIT SHEDS:  No.  N/A  LENGTH AND WIDTH (FT)  M/A  HEIGHT INSIDE (FT)  N/A	P, MARGINAL OFFES & 3 PIPELINE WITH SOILD FIL LIGHTED	WIDTH OF PIEN WIDTH OF APRO USABLE BERTH LOAD CAP. PER SHORE WHARF TRESTLES EX	ONSL, ATLA  N/A  ON open  ING SPACE  R SO, FT.  WITH TWO 3  TENDING FR	300' 250LBS 1' WIDE OM A STI
TEAMSHIP LINES REGULARLY HANDLED DESCRIPTION PIER:  LENGTH OF PIER  LENGTH OF APRON  DEPTH ALONGSIDE (MLW)  HT. DECK ABOVE MLW  CONCRETE PILE, CONCRETE DECKED TYPE OF CONSTRUCTION APPROACHE SHEET PILE, CELLULAR BULKHEAD LIGHTED TRANSIT SHEDS:  No. N/A  TYPE OF CONSTRUCTION  N/A  LENGTH AND WIDTH (FT)  M/A	P, MARGINAL OFFES & 3 PIPELINE WITH SOILD FIL LIGHTED	WIDTH OF PIEN WIDTH OF APRO USABLE BERTH LOAD CAP. PER SHORE WHARF TRESTLES EX	ONSL, ATLA  N/A  ON open  ING SPACE  R SO, FT.  WITH TWO 3  TENDING FR	300' 250LBS 1' WIDE OM A ST

BEPTH 77

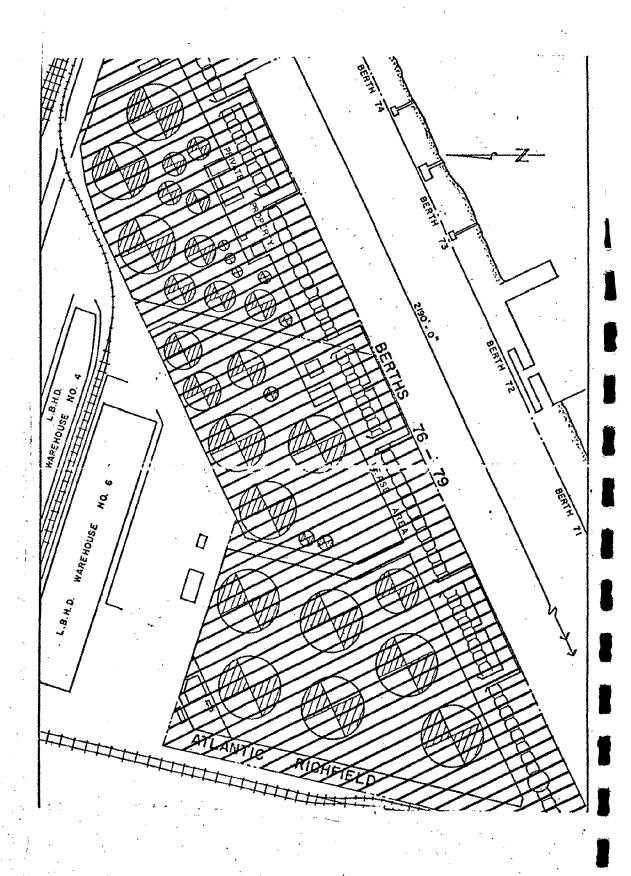
FACILITIES: POWER AVAILABLE TO VESSELS: VOLTAGE NONE CAPACITY NONE
EMERGENCY POWER ACCOMMODATIONS: NONE
WATER SUPPLY AVAILABLE TO VESSELS: AMOUNT THROUGH 3" LINES
CARGO HANDLING DEVICES: 6-8", HYDRAULIC OPERATED, SWIVEL-JOINTED LOADING ARMS MOUNTED ON ELEVATED STEEL STRUCTURES ON WHARF. TWO PNEUMATIC OPERATED MAST & BOOM CRANES WITH 27' BOOMS FOR HANDLING HOSES & SUPPLIES.
ACCESS:
RAILWAY: NONE
VEHICULAR: VIA W. 8TH ST., 48' WIDE, FM PICO AVE., & LB FWY
SECURITY:
WATCHMAN SECURITY COMPANY WATCHMAN/AMERICAN PLANT SECURITY SIXTEEN HOURS Type/Agency Hours
LOCATION OF WATCHMAN ROVING & GATE WATCH
FENCING CHAINLINK AROUNF ENTIRE FACILITY  Type Area
FIRE FIGHTING FACILITIES:
SPRINKLER SYSTEM: AREA COVERED N/A
FIRE ALARMS: (NO & LOCATION) 16 THROUGHOUT YD (SEE MAP)
PORTABLE EXTINGUISHERS (NO.) N/A INSIDE 14 OUTSIDE
FOAM STOCK AND EQUIPMENT FOAM EQUIP MAIN GATE ENTRANCE
FIRE HYDRANTS (NO & LOCATION) 35, THROUGHOUT YD ( SEE MAP)
FIRE HOSE (NO. & LOCATION 9 PLUS PORTABLE UNITS, THROUGHOUT YD (SEE MAP) Outside
N/A Inside
REMARKS: 1-12", 8-8", 2-6" PIPELINES EXTEND FM WHARF TO TANKS LOCATED IN REAR OF BERTH 57 ON CHANNEL 3.
PIER INSPECTOR R.H. DULIN PSC CGRG REP. 11-88870

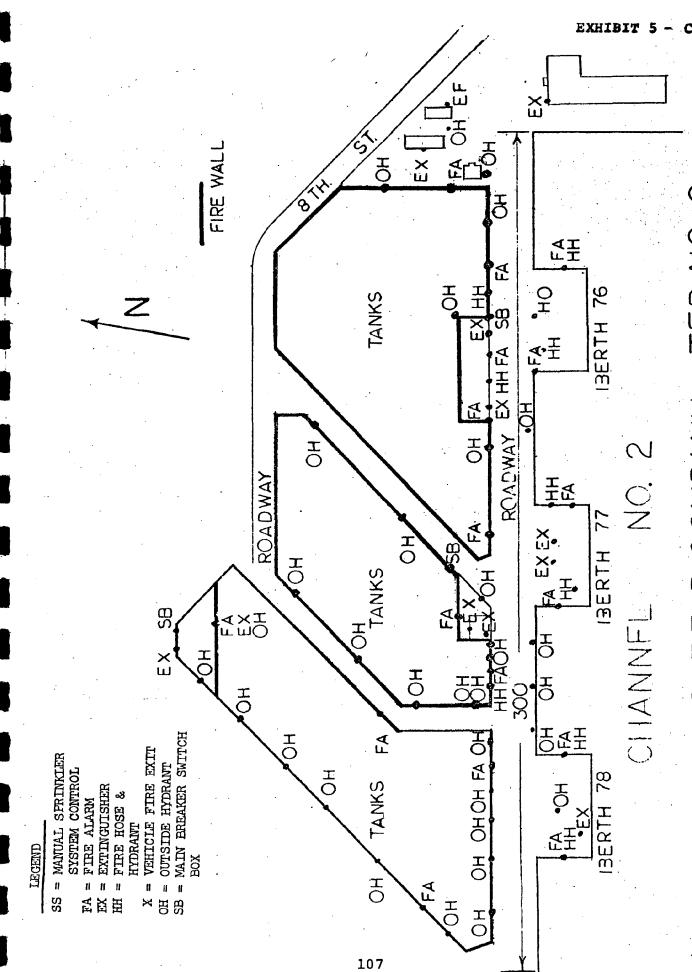
1 1976

				Jul VC	, 200
FACILITY:	BERTH 78	(ARCO TERMINAL	. 2)	PIER	мо
LOCATION:	APPLOX. 0.10	5 MILE FM HEAD C	F CHANNEL		
OWNED BY:	CITY OF LON	י אולארש		,	
	Name	3 MEACH	Day P	hone	Night Phone
	•				•
	Business Add	ess			
PERATED BY:	ATLANTIC RIC	CHFIELD	4	36-9071	436-9074
	Name		Day P	hone	Night Phone
		ST., LONG BEACH	CA 90813		
MERGENCY PHO	Business Addi NE NUMBERS:	ess			
A. R. WESSLI	EN	SUPT OF OPS	ATLANTI	C RICH.	(213) 596-2021
J. GEARING		SUPV OF OPS.	11	11	(714) 527-2082
			11		(012) /2( 007/
"FOREMAN OF Name	DUTY	Position	<del></del>	Firm	(213) 436-9074 Emerg. Phone
DESCRIPTION PIER:	·				
LENGTH OF	PIER	N/A	WIDT	H OF PIER	N/A
LENGTH OF	APRON	300	WIDT	H OF APRO	N_OPEN_
DEPTH ALON	GSIDE (MLW)	43'	USAB	LE BERTHI	NG SPACE 300
HT. DECK A	BOVE MIW	14'	LOAD	CAP. PER	SQ. FT. 250'
CONCRETE PI	TLE. CONCRETE	DECKED, MARGINA	L OFFSHOR	E WHARF W	ITH TWO 31' WIDE
		LKHEAD WITH SOLI LIGHTI		NC 15 (ES)	TUND ENTINATION &
TRANSIT SH	EDS: No	N/A	No		_ No
TYPE OF CO	netruction _	_N/A	· ·		
LENGTH AND	UIDTH (FT)	N/A			
HEIGHT INS	IDE (FT) _	_N/A		······································	
TOTAL CARG	o floor (sq f	r) <u>N/A</u>			
LOAD CAPAC	ITY (#/ SQ FT)	N/A			
LOCATION OF A	UTHORIZED PARI	CING ON EAST SID	E OF MATN	BUILDING	NEAR ENTRANCE

BERTH 78

	EMERGENCY POWER ACCOMMODATIONS: NONE
	WATER SUPPLY AVAILABLE TO VESSELS: AMOUNT THROUGH 3" LINE
	CARGO HANDLING DEVICES:6-8" HYDRAULIC OPERATED MARINE SWIVEL JOINTED LOADING ARMS MOUNTED ON ELEVATED STEEL STRUCTIRE ON WHARF AND TWO PNEUMATIC OPERATED MAST AND BOOM CRANES WITH 27' BOOMS FOR HANDLING HOSES AND SUPPLIES.
	ACCESS:
	RAILWAY: NONE
	VEHICULAR: VIA W. 8th ST., ASPHALT 48' WIDE FM PICO AVE., & LB FWY
E	CURITY:
	WATCHMAN SECURITY COMPANY WATCHMAN/ AMERICAN PLANT SECURITY SIXTEEN HOURS Type/Agency !!ours
	LOCATION OF WATCHMAN ROVING AND GATE WATCH
	FENCING CHAINLINK ARGUND ENTIRE FACILITY Type Area
FI	RE FIGHTING FACILITIES:
	SPRINKLER SYSTEM: AREA COVERED N/A
	FIRE ALARMS: (NO & LOCATION) 16 THROUGHOUT YD ( SEE MAP )
	PORTABLE EXTINGUISHERS (NO.) N/A INSIDE 14 OUTSIDE
	FOAM STOCK AND EQUIPMENT FOAM EQUIP. MAIN GATE ENTRANCE
	FIRE HYDRANTS (NO & LOCATION) 35. THROUGHOUT YD (SEE MAP)
	FIRE HOSE (NO. & LOCATION 9 PLUS PORTABLE UNITS, THROUGHOUT YD (SEE MAP) Outside
	N/A Inside
	REMARKS: 1-12", 8-8", 2-6" PIPELINES EXTENDED FROM WHARF TO TANKS LOCATED IN REAR OF BERTH 57 ON CHANNEL 3.





FR NO 2 ATLANTIC RICHFIELD COMPANY

## AMORIENT BERTH 33 \*

## EXISTING PETROLEUM FACILITIES

## WHARF CHARACTERISTICS

Numbers of berths	1
Length of berth(s) (ft)	600
Depth alongside wharf (ft)	44
No. of cargo transfer points to ship	4
Size of connections (in)	4-8" connecting to 2-10"
Maximum discharge rate (bbl/hr)	10,000 maximum

<sup>\*</sup> Used as a Multi-Commodity Facility

#### TERMINAL CHARACTERISTICS

Berth backland (acres)

Crude storage capacity (bbl)

Refined storage capacity (bbl)

Distance to refinery (mi)

Number of pipelines

Size of pipeline(s) to refinery (in)

Maximum pumping rate to refinery (bbl/hr)

Ownership of facilities

Leasing agreements

5.4

None

218,000

Line to Berth 84-87 Texaco Tank Farm

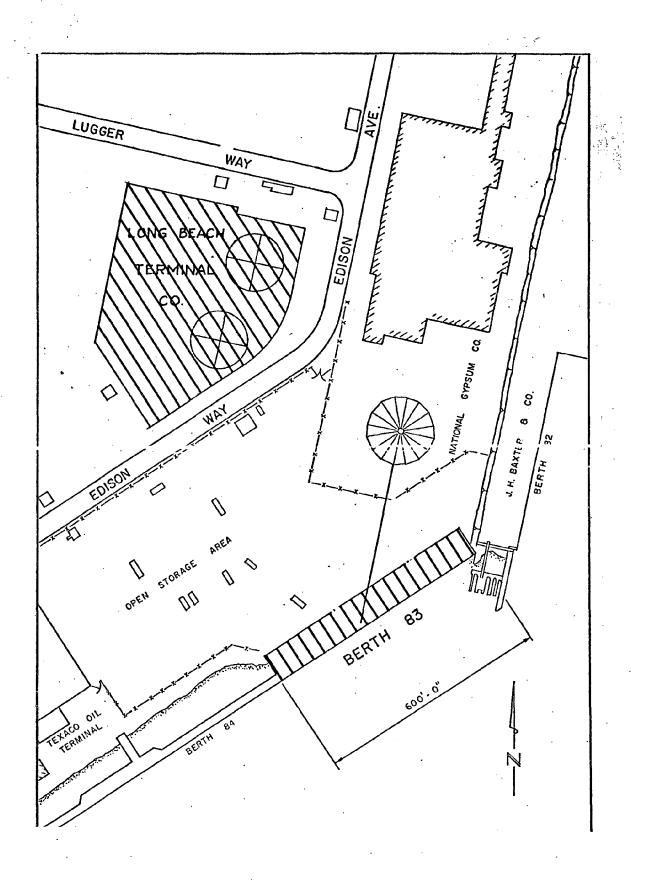
1

8"

4,000

Municipal

Lease



#### TEXACO BERTHS 84-87

EXHIBIT 7

#### EXISTING PETROLEUM FACILITIES

WHARF	CHARACTERISTICS

2 Numbers of berths Length of berth(s) (ft) 1970

55 (Maintenance Dredge to 62) Depth alongside wharf (ft)

5 No. of cargo transfer points to ship

2-12", 3-10" Size of connections (in)

Maximum discharge rate Pumps directly from ship to refinery (bbl/hr)

## TERMINAL CHARACTERISTICS

Ownership of facilities

4.5 Berth backland (acres) Outside Port District Crude storage capacity

(bb1)

Refined storage capacity 245,000 (bbl)

2.5 Distance to refinery (mi)

3 Number of pipelines

1-24", 1-16", 1-14" Size of pipeline(s) to refinery (in)

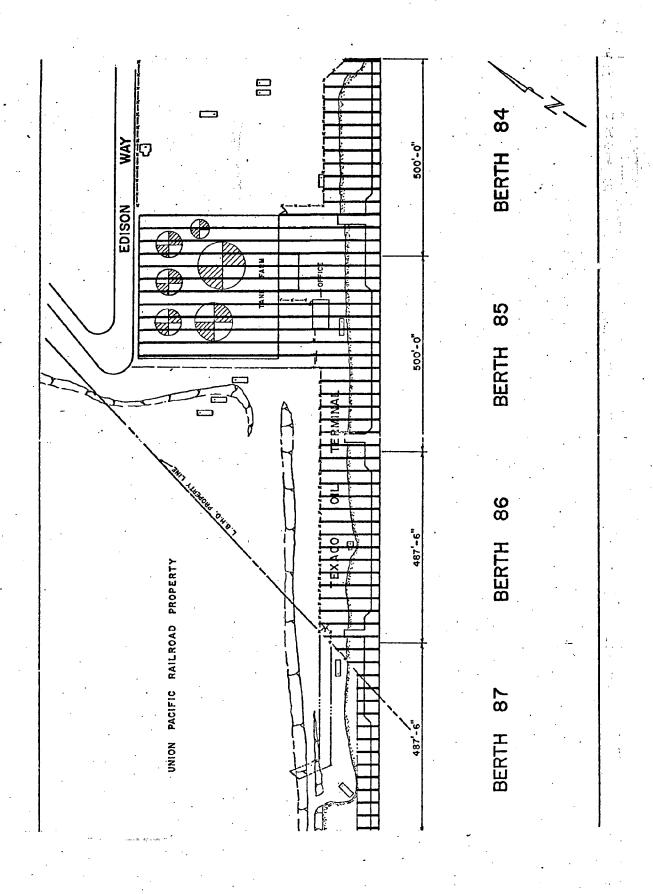
24"-20,000, 16"-10,000, 14"-8,000 Maximum pumping rate to

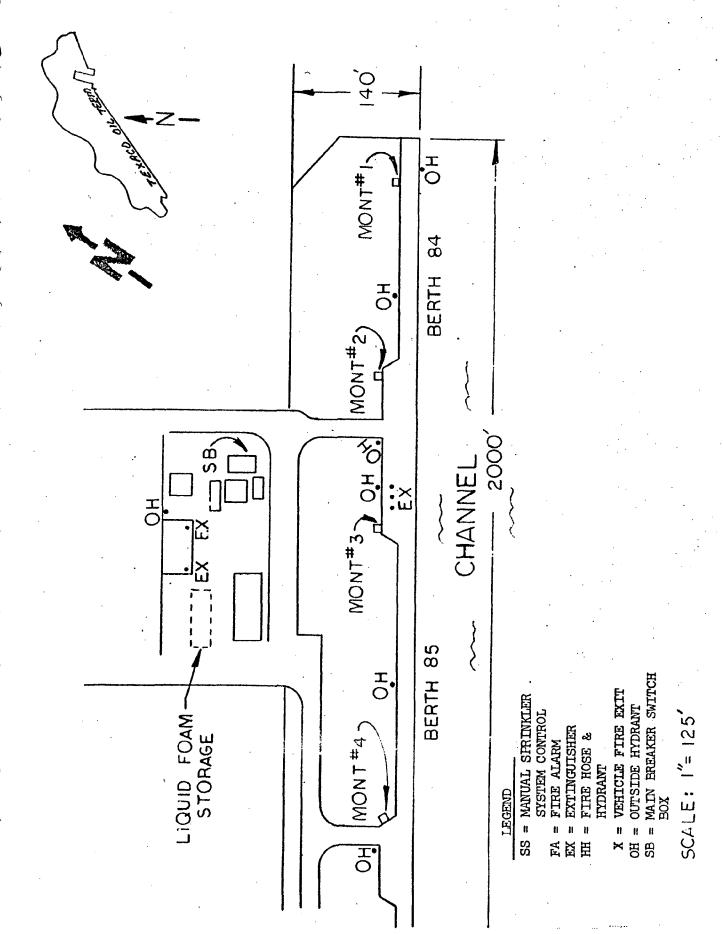
refinery (bbl/hr) Municipal

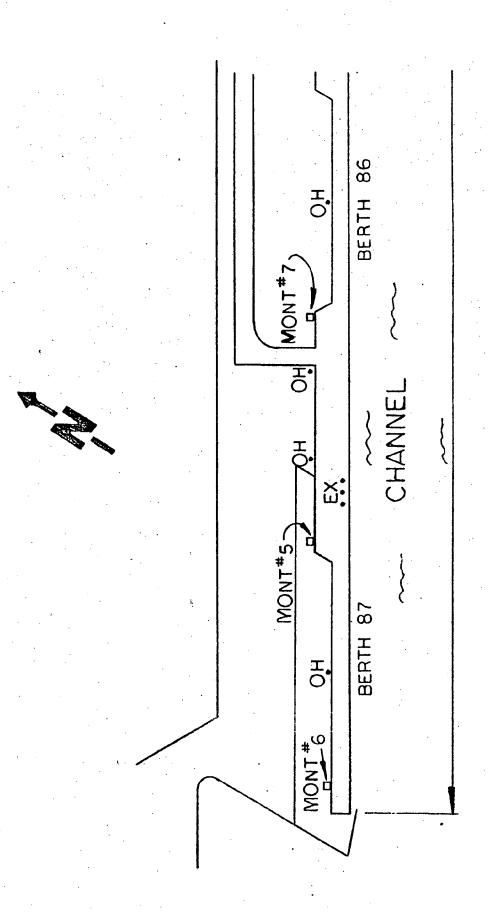
Lease Leasing agreements

				•			NIIV	
		7 - 1 -			Survey D	ate:_		
ACILITY:	BERTH 84 -	87	A STATE OF THE STA		PIER NO.		transaction	
OCATION:	INNEK HARBO	OR, NORTH	SIDE OF CH	ANNEL2 &	TURNING B	ASIN	· .	
WNED BY:	CITY OF LO	NG BEACH,	HARBOR DEP		0041		SAME	
	Name		* *	Day Phon	е	NIG	ht Pho	ne
	P. O. BOX	570. LONG	BEACH					
	Business Ad							
DEDATED RV.	TEXACO, IN	•		4.00			CANTE	
	Name		<del></del>	Day Phon	1950 e	Nigh	t Phor	e
	0050 77700			•		_		
<del>-</del>	2050 EDISON Business Ad		G BEACH		<del></del>	<del></del>		<del></del>
MERGENCY PHO		urcaa .						
	* * *	· · · ·			•			4
E. PETERSOI	N DOCK	FOREMAN	T	EXACO	(	213)	424-	6126
L. DELINE	TER S	SUPT	T	EXACO	(	213)	425-5	383
. CHADDOCK	TECH	POLL SPIL	L CONTROL	,			596-2	036
Name		Posit			1 rm	Emerg	. Phor	e
	RI THICH USED: VI	ECEIPT & S	HIPMENT OF	PETROLEU	M PRODUCT	S, BU	NKERI	NG
	MODATED:	*		KERING VE			SSION	ALLY
TEAMSHIP LIN		*		KERING VE			SSION	ALLY
TEAMSHIP LIN	IES REGULARLY	*	TEXACO, M	KERING VE	EW BARGES	OCCA	SSION	ALLY
TEAMSHIP LINESCRIPTION PIER: LENGTH OF	IES REGULARLY	HANDLED:_	TEXACO, M	KERING VE AINLY & F	EW BARGES	OCCA	SSION	ALLY
TEAMSHIP LINESCRIPTION PIER: LENGTH OF LENGTH OF	PIER	HANDLED:	TEXACO, M	KERING VE AINLY & F WIDTH O	EW BARGES	OCCA PEN PEN		
TEAMSHIP LIN ESCRIPTION PIER: LENGTH OF LENGTH OF DEPTH ALON HT. DECK A	PIER  APRON  GSIDE (MLW)  ABOVE NLW  PILE, CONCRET	HANDLED:	TEXACO, M	KERING VE AINLY & F WIDTH O WIDTH O USABLE LOAD CA HARF WITH	EW BARGES  F PIER O  F APRON O  BERTHING:  P. PER SQ  55X20' A	PEN PEN SPACE FT.	1972 750L	BS FRONT
TEAMSHIP LIN PESCRIPTION PIER:  LENGTH OF  LENGTH OF  DEPTH ALON  HT. DECK A  CONCRETE I  TYPE OF CO	PIER  APRON  GSIDE (MLW)  ABOVE NLW  PILE, CONCRET	HANDLED:	TEXACO, M	KERING VE AINLY & F WIDTH O WIDTH O USABLE LOAD CA HARF WITH	EW BARGES  F PIER O  F APRON O  BERTHING:  P. PER SQ  55X20' A	PEN PEN SPACE FT.	1972 750L	BS FRONT
TEAMSHIP LINESCRIPTION PIER: LENGTH OF LENGTH OF DEPTH ALON HT. DECK A CONCRETE I TYPE OF CO	PIER  APRON  ASSIDE (MLW)  ABOVE ALW  PILE, CONCRETE  ONSTRUCTION SI	HANDLED:	TEXACO, M  OFFSHORE W  K REVETTED	WIDTH O WIDTH O USABLE LOAD CA HARF WITH BANK, TI	F PIER OF APRON OF BERTHING SP. PER SQ 55X20' AMBER FEND	PEN PEN SPACE PPROA	1972 750L CHES, STEM	BS FRONT
TEAMSHIP LINESCRIPTION PIER: LENGTH OF LENGTH OF DEPTH ALON HT. DECK A CONCRETE H TYPE OF CO LIGHTED OF	PIER  APRON  ASSIDE (MLW)  ABOVE ALW  PILE, CONCRETE  ONSTRUCTION SI	1972' 1972' 56" 16" TE DECKEDO LOPING ROC ACE YES N/A	TEXACO, M OFFSHORE W K REVETTED	WIDTH O WIDTH O USABLE LOAD CA HARF WITH BANK, TI	F PIER Q F APRON O BERTHING P. PER SQ 55X20' A MBER FEND	PEN PEN SPACE PPROA ER SY	1972 750L CHES, STEM	BS FRONT ALONG.
TEAMSHIP LINESCRIPTION PIER: LENGTH OF LENGTH OF DEPTH ALON HT. DECK A CONCRETE H TYPE OF CO LIGHTED OF TRANSIT SI	PIER  APRON  ASSIDE (MLW)  BOVE NLW  PILE, CONCRETE  ONSTRUCTION SI  C UNLIGHTED	1972' 1972' 56" 16" TE DECKEDO LOPING ROC ACE YES N/A N/A	TEXACO, M OFFSHORE W K REVETTED	KERING VE AINLY & F WIDTH O WIDTH O USABLE LOAD CA HARF WITH BANK, TI	F PIER OF APRON OF BERTHING STATES OF APRON OF A	PEN PEN SPACE PPROA ER SY	1972 750L CHES, STEM	BS FRONT ALONG.
TEAMSHIP LINESCRIPTION PIER: LENGTH OF LENGTH OF DEPTH ALON HT. DECK A CONCRETE H TYPE OF CO LIGHTED OF TRANSIT SH	PIER  APRON  GSIDE (MLW)  PILE, CONCRETE  ONSTRUCTION SI  R UNLIGHTED  HEDS: No.	1972' 1972' 56" 16" TE DECKEDO LOPING ROC ACE YES N/A N/A	OFFSHORE W	KERING VE AINLY & F WIDTH O WIDTH O USABLE LOAD CA HARF WITH BANK, TI	F PIER OF APRON OF BERTHING STATES OF APRON OF A	PEN PEN SPACE PPROA ER SY	1972 750L CHES, STEM	BS FRONT ALONG.
TEAMSHIP LINE ESCRIPTION PIER: LENGTH OF LENGTH OF DEPTH ALON HT. DECK A CONCRETE INTERPORT OF COLUMN TRANSIT SHOULD THE SHOULD HEIGHT INSERT OF COLUMN HEIGHT OF	PIER  APRON  GSIDE (MLW)  PILE, CONCRETE  ONSTRUCTION SI  R UNLIGHTED  HEDS: No.	1972' 1972' 56" 16" TE DECKEDO LOPING ROC ACE YES N/A N/A N/A	OFFSHORE W	KERING VE AINLY & F WIDTH O WIDTH O USABLE LOAD CA HARF WITH BANK, TI	EW BARGES  F PIER O  F APRON O  BERTHING:  P. PER SQ  55X20' A  MBER FEND	PEN PEN SPACE PPROA ER SY	1972 750L CHES, STEM	BS FRONT
TEAMSHIP LINESCRIPTION PIER: LENGTH OF LENGTH OF DEPTH ALON HT. DECK A CONCRETE I TYPE OF CO LIGHTED OF TRANSIT SI TYPE OF CO LENGTH AND HEIGHT INS	PIER  APRON  ABOVE ALW  PILE, CONCRETON SI  R UNLIGHTED  HEDS: No.  ONSTRUCTION  ONSTRUCTION  ONSTRUCTION  ONSTRUCTION  ONSTRUCTION  ONSTRUCTION  ONSTRUCTION	HANDLED:_  1972'  1972'  56"  16"  TE DECKEDO LOPING ROC ACE YES  N/A  N/A  N/A  N/A  N/A  N/A	OFFSHORE W	KERING VE AINLY & F WIDTH O WIDTH O USABLE LOAD CA HARF WITH BANK, TI	EW BARGES  F PIER O  F APRON O  BERTHING:  P. PER SQ  55X20' A  MBER FEND	PEN PEN SPACE PPROA ER SY	1972 750L CHES, STEM	BS FRONT ALONG.

DACEL IMITEC.	BERTH 84	4-8/
POWER AVAILABLE TO VESSELS: AC220, 3 PHASE VOLTAGE C.	APACITY 60 CYCLE	
EMERGENCY POWER ACCOMMODATIONS: NONE		
WATER SUPPLY AVAILABLE TO VESSELS: AMOUNT 3-2' HOSE	CONNECTIONS	
CARGO HANDLING DEVICES: 3-40' WIDE LOADING STATIONS, EA MARINE, SWIVEL-JOINTED LOADING ARMS MOUNTED ON AN ELEV	ATED STEEL STRUCTURE.	C OPERATED,
ACCESS:	•	* .
RAILWAY: NONE		
VEHICULAR: VIA EDISON AVE., ASPHALT 48' WIDE FM W. 8th	ST.	•
SECURITY:		
WATCHMAN SECURITY ABM SECURITY	ALL LOADING TIME	
Type/Agency	llours	
LOCATION OF WATCHMAN SHIPBOARD WATCH		·
FENCING CHAINLINK BETWEEN MAIN BLDG. & DOCKS, CONCE	ETE WALLS	
FIRE FIGHTING FACILITIES:	Area	
SPRINKLER SYSTEM: AREA COVERED N/A	•	
FIRE ALARMS: (NO & LOCATION) N/A		
PORTABLE EXTINGUISHERS (NO.) N/A INSIDE	8 OUTSIDE	
FOAM STOCK AND EQUIPMENT IN PUMP YARD BETWEEN TA	NK FARM & DOCK	
FIRE HYDRANTS (NO & LOCATION) 10 ON DOCK		
FIRE HOSE (NO. & LOCATION SEVERAL PORTABLE Outside	ALONG DOCK	
Inside		
REMARKS: 5-10, 3-8 and 2-6 INCH PIPELINES EXTEND TO O COAST HIGHWAY APPROX. 1 1/2 MILES NORTH OF WHA	IL REFINERY LOCATED ON RF.	PACIFIC
	•	





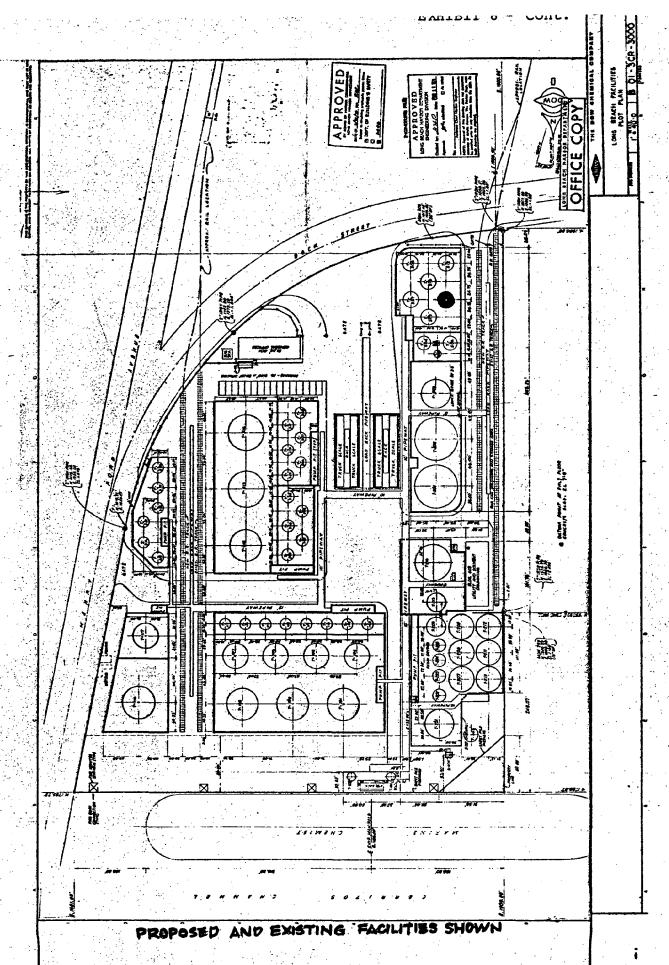


#### EXHIBIT 8

DOW CHEMICAL COMPANY
BERTH 101
EXISTING LIQUID BULK (CHEMICAL) FACILITIES

			Surv	ey bate: NIV	1 1310
FACILITY:	BERTH 101		PIEF	NO.	·
LOCATION:	Long Beach	·.			<del></del>
OWNED BY:	CITY OF LOS ANGELES				
	Name		Day Phone	Night Pho	ne
	Business Address				
OPERATED BY	: DOW CHEMICAL		328-4322		
	Name		Day Phone	Night Phor	1e
EMERGENCY P	Pusiness Address HONE NUMBERS:				
CHARLES LE	E TERM MGR		. (7	14) 897-2339	
DENNIS BRI	SCO	. 3	(7	14) 898–2763	
MAIN PLANT		,		328-4322	
Name	Position		Firm	Emerg. Phor	ne
PURPOSE FOR	WHICH USED: BULK CARGO	)			
VESSELS ACC	OMMODATED: TANKERS				
	INES REGULARLY HANDLED: V	PIIOTG			
DESCRIPTION PIER:		W.LVVI			
LENGTH O	F PIER		_WIDTH OF FII	ER	<u>.</u>
LENGTH O	F APRON_	···	_WIDTH OF API	RON	
DEPTH AL	ONGSIDE (MLW)		USABLE BERTI	ING SPACE	· · · · · · · · · · · · · · · · · · ·
HT. DECK	ABOVE MLW	· /	LOAD CAP. PI	ER SO. FT	
	CONSTRUCTION	•	•		·
LIGHTED	OR UNLIGHTED				
TRANSIT	SHEDS: No	No		No	
	CONSTRUCTION				
· · · · · · · · · · · · · · · · · · ·	ND WIDTH (FT)				
	NSIDE (FT)				
	RGO FLOOR (SQ FT)				
	ACITY (#/ SQ FT)		•		
	AUTHORIZED PARKING				

•	15 i . VUL	INGE	CAPACITY	
EMERGENCY POWER ACCOMMODA	ATIONS:			
WATER SUPPLY AVAILABLE TO	VESSELS:	AMOUNT		
CARGO HANDLING DEVICES:				
ACCESS: RAILWAY:				
VEHICULAR:			nagagan Wildelings da kanada da kanada sa kanada s	
CURITY:				
WATCHMAN SECURITY Type/A	gency		<del></del>	llours
LOCATION OF WATCHMAN				
FENCING		,		
Type				
RE FIGHTING FACILITIES:			•	Area
	COVERED		<b>\</b>	Area
RE FIGHTING FACILITIES:				Area
RE FIGHTING FACILITIES: SPRINKLER SYSTEM: AREA	ION)	INS	IDE	
RE FIGHTING FACILITIES:  SPRINKLER SYSTEM: AREA  FIRE ALARMS: (NO & LOCAT	ION)	INS		
RE FIGHTING FACILITIES:  SPRINKLER SYSTEM: AREA  FIRE ALARMS: (NO & LOCAT  PORTABLE EXTINGUISHERS (	ION)	INS		
RE FIGHTING FACILITIES:  SPRINKLER SYSTEM: AREA  FIRE ALARMS: (NO & LOCAT:  PORTABLE EXTINGUISHERS ()  FOAM STOCK AND EQUIPMENT	ION) NO.) TION)	INS		
RE FIGHTING FACILITIES:  SPRINKLER SYSTEM: AREA  FIRE ALARMS: (NO & LOCAT:  PORTABLE EXTINGUISHERS ()  FOAM STOCK AND EQUIPMENT  FIRE HYDRANTS (NO & LOCAT	ION) NO.) TION)	INS		OUTSID
RE FIGHTING FACILITIES:  SPRINKLER SYSTEM: AREA  FIRE ALARMS: (NO & LOCAT:  PORTABLE EXTINGUISHERS ()  FOAM STOCK AND EQUIPMENT  FIRE HYDRANTS (NO & LOCAT	ION)  TION)  Outside	INS		



WATER

얦 STEEL AND PLANK DOCK CHEMICAL TANK STOR AGE ARFA ACCESS ROAD

> BERTH 101 SCALE 1"=100"

DMONNTED WATER MONITORS
FOR FIRE PROTECTION
EMONITOR STAIRWAYS

HANNY CHAIN LINK FENCE

### ARCO BERTHS 118-119

EXHIBIT 9

#### EXISTING PETROLEUM FACILITIES

WHARF	CHARACTERIS	TICS

Numbers of berths

Length of berth(s) (ft)

Depth alongside wharf (ft)

No. of cargo transfer points to ship

Size of connections (in)

Maximum discharge rate (bbl/hr)

1

1200

55 (Maintenance Dredge to 62)

2

1 - 24", 1 - 14"

24" - 25,000 (crude) 14" - 4,000 (fuel)

#### TERMINAL CHARACTERISTICS

Berth backland (acres)

Crude storage capacity (bbl)

Refined storage capacity (bbl)

Distance to refinery (mi)

Number of pipelines

Size of pipeline(s) to refinery (in)

Maximum pumping rate to refinery (bbl/hr)

Ownership of facilities

Leasing agreements

12.4

Outside Port District

None

2.5 mi to Terminal Two then

3.5 mi to refinery from Terminal Two

2

24" to Terminal Two & Edison 14" fuel to Terminal Two

25,000

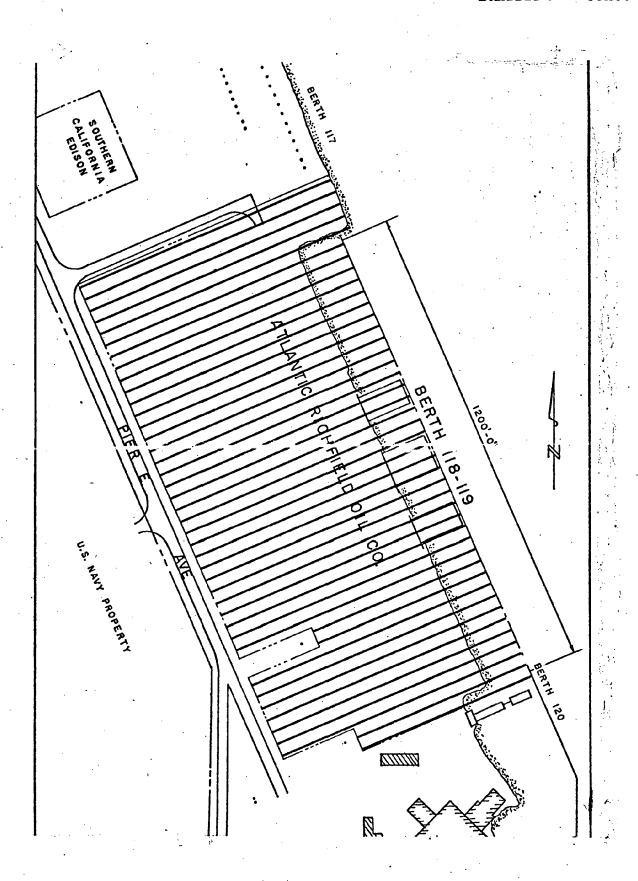
Municipal

Lease

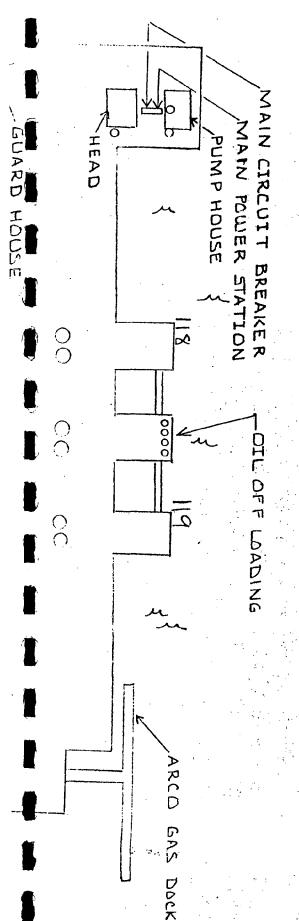
ACILITY: PERTH 118-	-119 ATLANTIC RICH	HFIELD PIE	R NO. E SIDE OF PIER E APPROX.
			SIDE OF PIER E APPROX.
ocation: 0.30 MILES SO.	OF GERALD DESMOND	BRIDGE.	
WNED BY: CITY OF LO	ONG BEACH		
Name		Day Phone	Night Phone
		TO TOWN DELOW	
Business Ac	R AVE. P.O. BOX 5	/U. LUNG BEACH	
PERATED BY: ATLANTIC F	RICHFIELD CO	436-9071	436-9074 Night Phone
Name		Day Phone	Might Fhone
	h ST., LONG BEACH	, 90813	
Business Ac	ldress		
MERGENCY PHONE NUMBERS:			
. R. WESSLEN	SUPV OF OPS		596-2021
GEARING	SUPV OF OPS.		(714) 527–2882
			436-9074
ORMAN ON DUTY Name	Position	Firm	
			-
URPOSE FOR WHICH USED:	RECEIPT OF CRU	DE OIL SHIPMENT	OF PETROLEUM AND BUNKE
•	ING OF VESSELS		
ESSELS ACCOMMODATED:	OIL TANKERS	*	
ESSELS ACCOMMODATED: TEAMSHIP LINES REGULARLY ESCRIPTION PIER:	OIL TANKERS	*	NATIONSL, ATLAS STEAMSH
ESSELS ACCOMMODATED: TEAMSHIP LINES REGULARLY ESCRIPTION PIER:	OIL TANKERS HANDLED: RICHFI	ELD, HENO-INTERN	
ESSELS ACCOMMODATED: TEAMSHIP LINES REGULARLY ESCRIPTION PIER: LENGTH OF PIER	OIL TANKERS  HANDLED: RICHFI  N/A	ELD, HENO-INTERN WIDTH OF PI	ER_N/A
ESSELS ACCOMMODATED: TEAMSHIP LINES REGULARLY ESCRIPTION PIER:	OIL TANKERS  ( HANDLED: RICHFI  N/A  ARF NO. CTR W	ELD, HENO-INTERM  WIDTH OF PI	
ESSELS ACCOMMODATED: TEAMSHIP LINES REGULARLY ESCRIPTION PIER: LENGTH OF PIER SO WH	OIL TANKERS  HANDLED: RICHFI  N/A  ARF NO. CTR W	WIDTH OF AP	ER N/A SO CTR NO.
ESSELS ACCOMMODATED: TEAMSHIP LINES REGULARLY ESCRIPTION PIER: LENGTH OF PIER LENGTH OF APRON 50 WH DEPTH ALONGSIDE (MLW)	OIL TANKERS  HANDLED: RICHFI  N/A  ARF NO. CTR W  52'	WIDTH OF PI HARF WIDTH OF AP USABLE BERT	ER N/A SO CTR NO. RON 116, 116, 116 HING SPACE 480'
ESSELS ACCOMMODATED:  TEAMSHIP LINES REGULARLY ESCRIPTION PIER:  LENGTH OF PIER  SO WH LENGTH OF APRON 68  DEPTH ALONGSIDE (MLW)  HT. DECK ABOVE MLW WHARF CONSISTS OF TH	OIL TANKERS  HANDLED: RICHFI  N/A ARF NO. CTR W 68' 92'  52'  25' REE CONCRETE PILE.	WIDTH OF PI HARF WIDTH OF AP USABLE BERT LOAD CAP. P	ER N/A SO CTR NO. RON 116, 116, 116 HING SPACE 480' ER SQ. FT. 500 D PARALLEL WHARVES, 90'
ESSELS ACCOMMODATED:  TEAMSHIP LINES REGULARLY ESCRIPTION PIER:  LENGTH OF PIER  LENGTH OF APRON  DEPTH ALONGSIDE (MLW)  HT. DECK ABOVE MLW WHARF CONSISTS OF TH	OIL TANKERS  HANDLED: RICHFI  N/A  ARF NO. CTR W  52'  25'  REE CONCRETE PILE, PART: RUBBER FENDE	WIDTH OF PI HARF WIDTH OF AP USABLE BERT LOAD CAP. P CONCRETE DECKEL	ER N/A SO CTR NO. RON 116, 116, 116 HING SPACE 480'
ESSELS ACCOMMODATED:  TEAMSHIP LINES REGULARLY ESCRIPTION PIER:  LENGTH OF PIER  SO WH LENGTH OF APRON 68  DEPTH ALONGSIDE (MLW)  HT. DECK ABOVE MLW WHARF CONSISTS OF TH	OIL TANKERS  HANDLED: RICHFI  N/A  ARF NO. CTR W  52'  25'  REE CONCRETE PILE, PART: RUBBER FENDE	WIDTH OF PI HARF WIDTH OF AP USABLE BERT LOAD CAP. P CONCRETE DECKEL R SYSTEM ALONG	ERN/A SO CTR NO. RON_116, 116, 116 HING SPACE 480' ER SQ. FT. 500 D PARALLEL WHARVES, 90'
ESSELS ACCOMMODATED:  FEAMSHIP LINES REGULARLY ESCRIPTION PIER:  LENGTH OF PIER  LENGTH OF APRON  BOWH  LENGTH ALONGSIDE (MLW)  HT. DECK ABOVE MLW  WHARF CONSISTS OF THE TYPE OF CONSTRUCTION AND ADDRESSED OF THE TYPE OF CONSTRUCTION ADDRESSED OF THE TYPE OF TH	OIL TANKERS  HANDLED: RICHFI  N/A  ARF NO. CTR W  52'  25'  REE CONCRETE PILE, PART: RUBBER FENDE PHINS IN LINE WITH LIGHTE	WIDTH OF PI HARF WIDTH OF AP USABLE BERT LOAD CAP. P CONCRETE DECKEL R SYSTEM ALONG	ER_N/A SO CTR NO. RON 116, 116, 116 HING SPACE 480' ER SQ. FT. 500 D PARALLEL WHARVES, 90' FACES, 2 RECTANGULAR-
ESSELS ACCOMMODATED:  FEAMSHIP LINES REGULARLY ESCRIPTION PIER:  LENGTH OF PIER  LENGTH OF APRON  DEPTH ALONGSIDE (MLW)  HT. DECK ABOVE MLW  WHARF CONSISTS OF TH TYPE OF CONSTRUCTIONAL SHAPED BREASTING DOLL LIGHTED OR UNLIGHTED	OIL TANKERS  ( HANDLED: RICHFI  ARF NO. CTR W  52'  25'  REE CONCRETE PILE, PART: RUBBER FENDE PHINS IN LINE WITH LIGHTE  . N/A N	WIDTH OF PI HARF WIDTH OF AP USABLE BERT LOAD CAP. P CONCRETE DECKEL R SYSTEM ALONG FACES.	ER N/A SO CTR NO. RON 116, 116, 116 HING SPACE 480' ER SQ. FT. 500 D PARALLEL WHARVES, 90' FACES, 2 RECTANGULAR-
ESSELS ACCOMMODATED:  FEAMSHIP LINES REGULARLY ESCRIPTION PIER:  LENGTH OF PIER  LENGTH OF APRON  DEPTH ALONGSIDE (MLW)  HT. DECK ABOVE MLW  WHARF CONSISTS OF TH TYPE OF CONSTRUCTIONAL SHAPED BREASTING DOL LIGHTED OR UNLIGHTED  TRANSIT SHEDS: No	OIL TANKERS  ( HANDLED: RICHFI  ARF NO. CTR W  52'  25'  REE CONCRETE PILE, PART: RUBBER FENDE PHINS IN LINE WITH LIGHTE  . N/A  N/A	WIDTH OF PI HARF WIDTH OF AP USABLE BERT LOAD CAP. P CONCRETE DECKE R SYSTEM ALONG FACES.	ER_N/A SO CTR NO. RON_116, 116, 116 HING SPACE 480' ER SQ. FT. 500 D PARALLEL WHARVES, 90' FACES, 2 RECTANGULAR- No.
ESSELS ACCOMMODATED:  TEAMSHIP LINES REGULARLY ESCRIPTION PIER:  LENGTH OF PIER  LENGTH OF APRON SO WH  CONSTRUCTION OF CONSTR	OIL TANKERS  ( HANDLED: RICHFI  ARF NO. CTR W  52'  25'  REE CONCRETE PILE, PART: RUBBER FENDE PHINS IN LINE WITH LIGHTE  N/A  N/A  N/A  N/A	WIDTH OF PI HARF WIDTH OF AP USABLE BERT LOAD CAP. P CONCRETE DECKER R SYSTEM ALONG FACES.	ER N/A SO CTR NO. RON 116, 116, 116 HING SPACE 480' ER SQ. FT. 500 D PARALLEL WHARVES, 90' FACES, 2 RECTANGULAR— No.
ESSELS ACCOMMODATED:  TEAMSHIP LINES REGULARLY ESCRIPTION PIER:  LENGTH OF PIER  LENGTH OF APRON SO WH  LENGTH ALONGSIDE (MLW)  HT. DECK ABOVE MLW  WHARF CONSISTS OF TH TYPE OF CONSTRUCTIONAL  SHAPED BREASTING DOL LIGHTED OR UNLIGHTED  TRANSIT SHEDS: No  TYPE OF CONSTRUCTION  LENGTH AND WIDTH (FT)	OIL TANKERS  ( HANDLED: RICHFI  N/A  ARF NO. CTR W  52'  25'  REE CONCRETE PILE, PART: RUBBER FENDE PHINS IN LINE WITH LIGHTE  N/A  N/A  N/A  N/A  FT) N/A	WIDTH OF PI HARF WIDTH OF AP USABLE BERT LOAD CAP. P CONCRETE DECKER R SYSTEM ALONG FACES.	ER_N/A SO CTR NO. RON_116, 116, 116 HING SPACE 480' ER SQ. FT. 500 D PARALLEL WHARVES, 90' FACES, 2 RECTANGULAR- No.

123

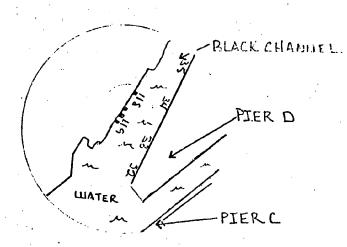
				· <u>J</u>	ERTH 118-11	9
FACILITIES: POWER AVAILABLE TO VESSELS:	VOLTAGE	220	CAPACITY		,	
EMERGENCY POWER ACCOMMODATION	S: NONE	₹				
		· · · · · · · · · · · · · · · · · · ·	e recom old	HOSE COM	IECTIONS	
WATER SUPPLY AVAILABLE TO VES					-	
CARGO HANDLING DEVICES: 5-12" ELEVATED STEEL STRUCTURE ON			RINE SWIVEI	-JOINTED	LOADING ARM	IS ON
ACCESS:	-				•	
RAILWAY: NONE						
VEHICULAR: VIA PRIVATE RD. FM	PINE AVE	. 48' WIDE			. '	
SECURITY:		*				
WATCHMAN COWATCHMAN COWATCHMAN SECURITY AMERICAN P		NTY-FOUR HO	URS WHEN SI	HIP IS BE		
Type/Agency				Hours		
LOCATION OF WATCHMAN FRONT	GATE	· .			-	
FENCING CHAINLINK-EAST SI	E. SOUTH S	IDE, NORTH	SIDE			
Type				Area		. •
FIRE FIGHTING FACILITIES:	•					
SPRINKLER SYSTEM: AREA COVER	ED <u>nor</u>	te		·	-	
FIRE ALARMS: (NO & LOCATION)	NON	ie			. ·	
PORTABLE EXTINGUISHERS (NO.)		INSIDE	2		SIDE	
FOAM STOCK AND EQUIPMENT 4 PO	RTABLE 150	CAP APPLIA	ANCES	-	<del></del>	
FIRE HYDRANTS (NO & LOCATION) SIDE OF BERTH - FACILITY HA	S TWO-WEST:	sidk <sup>3</sup> 8£rbb	CKOTAL HYDR	ANTS NEAR	NATER LINE	on so.
FIRE HOSE (NO. & LOCATION	8~(	ON DOCK ALO				
Out	side N/A	<b>A</b>				
Ins	1de				Cenal walk	
Vessels up to 920' long can REMARKS: wide, connection of to storage tanks described a timber of wharf, used as fue in rear with one 3" pipeline	wharves and nd located ling statio	d dolphins. in rear of on for smal	Ref. Nos. 1 craft. Or	id one 14 58, 59 ai	nd 60. Timbe	er pile,
	CWO 2	•	CGRG REP. 1	11_88870	,	·
PIER INSPECTOR R.K. WIEGERT	VRV &	· ·	OONG NEL		<del></del>	



# PORT OF LONG BEACH



ATLANTIC RICHIELD BERTH 118-119



LEGEND

SS = MANUAL SPRINKLER

SYSTEM CONTROL

FA - FIRE ALARM

EX = EXTINGUISHER

HH = FIRE HOSE &

HYDRANT

X = VEHICLE FIRE EXIT

FO = FOAM EQUIPMENT

P8 = PUMP SWITCH

EF = EMERG FUEL SHUT OFF

#### EXXON BERTH 209

#### EXISTING PETROLEUM FACILITIES\*

#### WHARF CHARACTERISTICS

Number of berths 1

Length of Berth(s) 550

Depth alongside wharf (ft) 38

No. of cargo transfer 1
points to ship

Size of connections (in) 12" to Panorama Drive Terminal One 6" and one 8" Berth to ship, each with max discharge rate of

5,000 bb1/hr.

TERMINAL CHARACTERISTICS

Refined storage capacity 402,200

Leasing Agreements Lease on tank farm

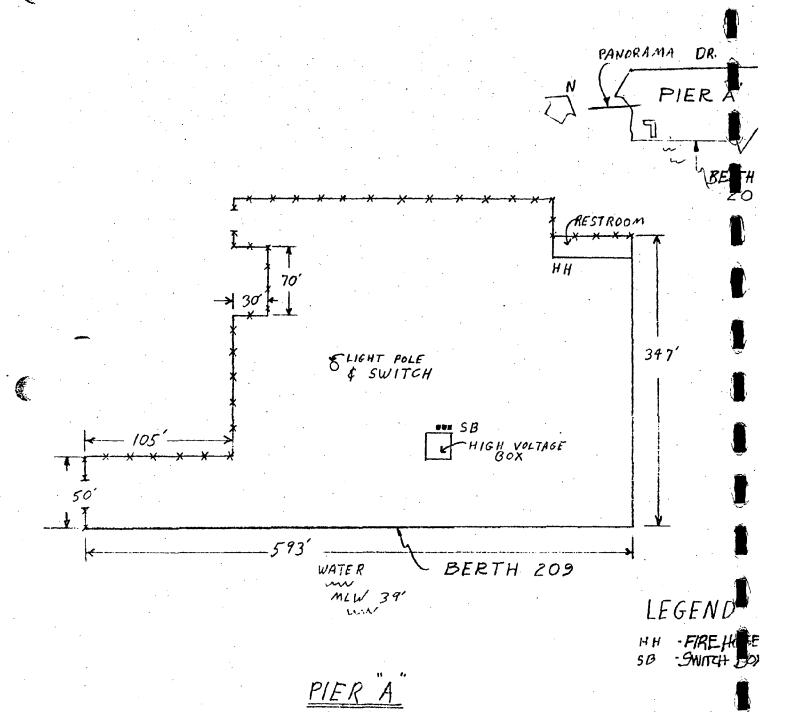
<sup>\*</sup> Used as a Mult-Commodity Facility See also figure for Berth 210, Exhibit 10

## WATERFRONT FACILITY SURVEY

•	Survey Date: <u>HOV 1 1976</u>
FACILITY: BERTH 209	PIER NO. A
LOCATION: PORT OF LONG BEACH, I	PIER A
OWNED BY: CITY OF LONG BEACH	
Name	Day Phone Night Phone
P.O. BOX 20110 LONG F	BEACH, CA
OPERATED BY: OCTAN SALT	1,37~0071 SAME
Name	Day Phone Night Phone
1250 PANDRAMA DE	RIVE
Business Address EMERGENCY PHONE NUMBERS:	
D. DUTRO PLANT SUPT.	(714)894-189
PAT PATTISON GEN. MGR.	. (71և)Տև6-Տև9
Name Posi	tion Firm Emerg. Phone
PURPOSE FOR WHICH USED: FULK	
STEAMSHIP LINES REGULARLY HANDLED:	. V
DESCRIPTION PIER:	
LENGTH OF PIER 593	width of Pier 11:50'
LENGTH OF APRON 593'	width of Apron <u>open</u>
DEPTH ALONGSIDE (MLW) 391	USABLE BERTHING SPACE 5501
HT. DECK ABOVE MLW 16'	LOAD CAP. PER SO. FT. 2000IBS
TYPE OF CONSTRUCTION CONCRETE F	PILS, CONCRETE WALL, ASPHALT SURFACE
	TED.
•	No. No.
TYPE OF CONSTRUCTION NONE	
TOTAL CARGO FLOOR (SQ FT)NON	IE
	OF BERTH (NORTH SIDE)

BERTH 209

EMERGENCY POWER ACCOMMOD	ATIONS:N	ZV.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>		
WATER SUPPLY AVAILABLE T	O VESSELS:	AMOUNT	NONE			
CARGO HANDLING DEVICES:	COMMINOD DES				,	
	CUNVETUR BE				•	
my nys. As i thin n mandandrithi printes a magayanggaffanny i <del>dillitti a mandangyilli</del> di.						
ACCESS:	,					
RAILWAY: YES, TWO LI	NES					
VEHICULAR: TRUCKS LOAD	TNG AND OFF	LOADING		<del></del>		
11(0000 1000			<del></del>	<del> </del>		
CURITY:		* 4				
WATCHMAN SECURITY NONE						
- Type/A	gency		•		ilours	•
LOCATION OF WATCHMAN	ONE	······································				
ELNCING ON THE THE	STREET SIDE	וייינוס טונא	ייים ייים אימים	e Roc zu	nd 209-li	ACRES
FENCING CHAINLINK.	STREET SIDE	WING DUTH	CON DIAME	in Foo a		_
Type CHAINLINK,	SIKE SIME	MIG DELW	CEN DEACE.	100 E00 G	Area	
Туре	SIREMI SIDE	ANU DELW	EM PERT	100 E	Area	
Type TRE FIGHTING FACILITIES:			ALIN DEAT	132 200 0	Area	
Туре		NONE	ASIN PERCI	100 a	Area	
Type  RE FIGHTING FACILITIES:	COVERED		ASIN PERCE	200 a	Area	
Type  RE FIGHTING FACILITIES:  SPRINKLER SYSTEM: AREA  FIRE ALARMS: (NO & LOCAT	COVERED	NONE NONE		YES	Area	
Type  THE FIGHTING FACILITIES:  SPRINKLER SYSTEM: AREA  FIRE ALARMS: (NO & LOCAT  PORTABLE EXTINGUISHERS (	COVERED	NONE NONE	INSIDE		Area	TSIDE
Type  TRE FIGHTING FACILITIES:  SPRINKLER SYSTEM: AREA  FIRE ALARMS: (NO & LOCAT	COVERED	NONE NONE			Area	
Type  THE FIGHTING FACILITIES:  SPRINKLER SYSTEM: AREA  FIRE ALARMS: (NO & LOCAT  PORTABLE EXTINGUISHERS (	COVERED	NONE NONE			Area	
Type  RE FIGHTING FACILITIES:  SPRINKLER SYSTEM: AREA  FIRE ALARMS: (NO & LOCAT  PORTABLE EXTINGUISHERS (  FOAM STOCK AND EQUIPMENT  FIRE HYDRANTS (NO & LOCAT	COVERED	NONE NONE NONE YES	INSIDE	YES	Area OU	TSIDE
Type  TRE FIGHTING FACILITIES:  SFRINKLER SYSTEM: AREA  FIRE ALARMS: (NO & LOCAT  PORTABLE EXTINGUISHERS (  FOAM STOCK AND EQUIPMENT	COVERED	NONE NONE NONE YES NORTHEAS	INSIDE	YES	Area	TSIDE
Type  TRE FIGHTING FACILITIES:  SFRINKLER SYSTEM: AREA  FIRE ALARMS: (NO & LOCAT  PORTABLE EXTINGUISHERS (  FOAM STOCK AND EQUIPMENT  FIRE HYDRANTS (NO & LOCA	COVERED	NONE NONE NONE YES	INSIDE	YES	Area OU	TSIDE
Type  TRE FIGHTING FACILITIES:  SPRINKLER SYSTEM: AREA  FIRE ALARMS: (NO & LOCAT  PORTABLE EXTINGUISHERS (  FOAM STOCK AND EQUIPMENT  FIRE HYDRANTS (NO & LOCATION  FIRE HOSE (NO. & LOCATION	COVERED	NONE NONE NONE YES NORTHEAS	INSIDE	YES	Area OU	TSIDE
Type  TRE FIGHTING FACILITIES:  SFRINKLER SYSTEM: AREA  FIRE ALARMS: (NO & LOCAT  PORTABLE EXTINGUISHERS (  FOAM STOCK AND EQUIPMENT  FIRE HYDRANTS (NO & LOCAT  FIRE HOSE (NO. & LOCATION  REMARKS:	COVERED	NONE NONE NONE YES NORTHEAS	INSIDE	YES	Area OU	TSIDE
Type  TRE FIGHTING FACILITIES:  SPRINKLER SYSTEM: AREA  FIRE ALARMS: (NO & LOCAT  PORTABLE EXTINGUISHERS (  FOAM STOCK AND EQUIPMENT  FIRE HYDRANTS (NO & LOCATION  FIRE HOSE (NO. & LOCATION	COVERED	NONE NONE NONE YES NORTHEAS	INSIDE	YES	Area OU	TSIDE



130 -----

### NATIONAL MOLASSES BERTH 210

## EXISTING PETROLEUM FACILITIES

## WHARF CHARACTERISTICS

Numbers of berths	1
Length of berth(s) (ft)	550
Depth alongside wharf (ft)	40
No. of cargo transfer points to ship	1
Size of connections (in)	12" to Panorama Drive Terminal One 8" at Berth to ship
Maximum discharge rate 3,000 (bbl/hr)	

Ship services needed

Bunkering, water

\* Used as a Multi-Commodity Facility

#### TERMINAL CHARACTERISTICS

Berth backland (acres)

Crude storage capacity
(bbl)

Refined storage capacity (bbl)

Distance to refinery (mi)

Number of pipelines

Size of pipeline(s) to refinery (in)

Maximum pumping rate to refinery (bbl/hr)

Ownership of facilities

Leasing agreements

3.7

None

402,200

No refinery involved

None

None

None

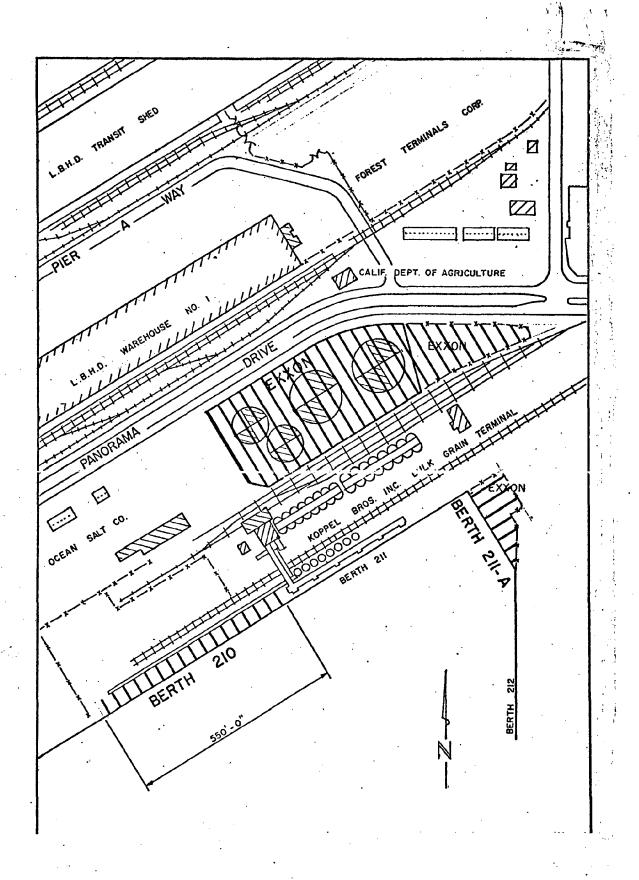
Municipal

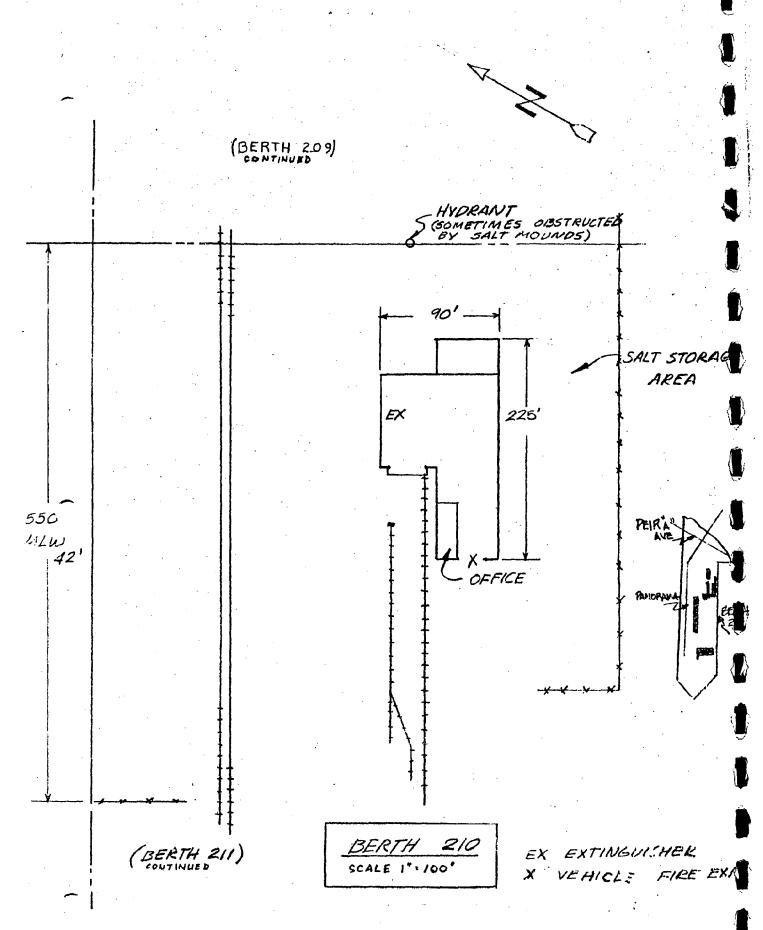
Lease on tank farm

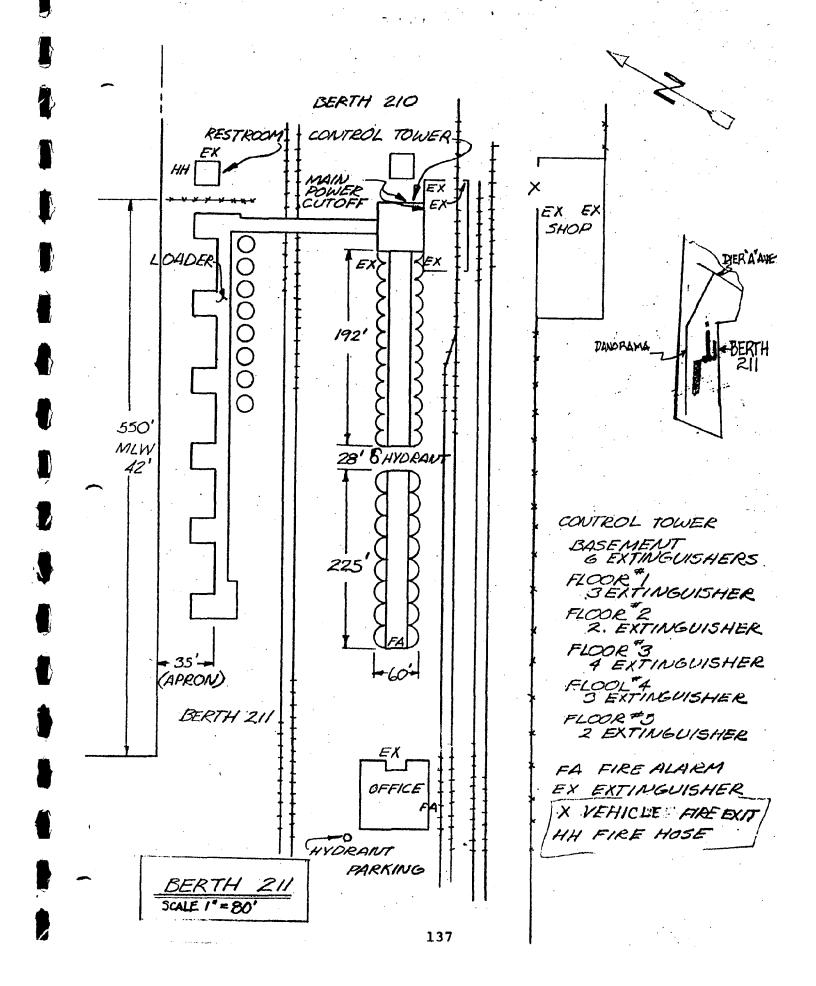
#### WATERFRONT FACILITY SURVEY

		Surv	ey Date: NOV 1 1976
FACILITY: BERTH 210 & 211		PIER	NO. K
LOCATION: N/W SIDE OF SOUTH	EAST BASIN,	LONG BEACH	
OWNED BY: CITY OF LONG BEAC	HARBOR D	EPT. 437-0	ooli1 same
Name		Day Phone	Night Phone
P.O. ROX 570, LOI Business Address	NG BEACH	······································	
OPERATED BY: KOPPEL BULK TERM	INAL	436-9776	436-9777
Name		Day Phone	Night Phone
PIER A BERTH 211 Business Address			
EMERGENCY PHONE NUMBERS:		•	
GEORGE KOPPEL	<b>P</b> RESIDENT	KOPPEL GRAIN CO	. (213) <u>425<b>-</b>872</u> 2
CHUCK HAWTHORNE	ASSIST. SUP	T.	(714)848-9062
DAVE NOE	· . ·		(714)963-1050
Name	Position	Firm	Emerg. Phone
PURPOSE FOR WHICH USED:	EXPORT GRAI	N TERMINAL	
VESSELS ACCOMMODATED:	BULK GRAIN	CARRIES	
STEAMSHIP LINES REGULARLY HAND	LED:VART	ous	
DESCRIPTION	1111/2		
PIER:		•	
LENGTH OF PIER 55	01	WIDTH OF PIE	CR OPEN
LENGTH OF APRON	5501	WIDTH OF APP	on35 •
DEPTH ALONGSIDE (MLW)	1,21	USABLE BERTH	ING SPACE 550
HT. DECK ABOVE MLW	19!	LOAD CAP. PE	CR SQ. FT. 2000LBS
TYPE OF CONSTRUCTION	CONCRETE P	ILING AND DOCK	
LIGHTED OR UNLIGHTED	LIGHTED	······	
TRANSIT SHEDS: No	ON 211	No. 2 ON 210	No. GRAIN ELEVATOR
TYPE OF CONSTRUCTION	ŒTAL	METAL	CONCRETE
LENGTH AND WIDTH (FT)	200x80	205X90	60 Dia.
HEIGHT INSIDE (FT)	_50		300
TOTAL CARGO FLOOR (SQ FT)	N/A	1800 0	2,000,000
LOAD CAPACITY (#/ SQ FT)		2,000	2,000
LOCATION OF AUTHORIZED PARKING	IN FRONT	OF OFFICE ON 211	

ACILITIES:	DEPTI
POWER AVAILABLE TO VESSELS: VOL	TAGE 100KWH CAPACITY N/A
EMERGENCY POWER ACCOMMODATIONS: NO	NE
WATER SUPPLY AVAILABLE TO VESSELS:	AMOUNT 2" HOSE
CARGO HANDLING DEVICES: 5 GRAIN LC	DADING SPOUTS, BOXCAR DUMPER
ACCESS:	
RAILWAY: HARBOR BELT LINE (6 TH	ACKS)
VEHICULAR: VIA PANORAMA DRIVE	
ECURITY:	
WATCHMAN SECURITY N/A Type/Agency	Hours
LOCATION OF WATCHMAN N/A	
FENCING N/A Type	Area
RE FIGHTING FACILITIES:  SPRINKLER SYSTEM: AREA COVERED	NONE
FIRE ALARMS: (NO & LOCATION) 2 OUT	
PORTABLE EXTINGUISHERS (NO.) 25	INSIDE 1. OUTSIDE
FOAM STOCK AND EQUIPMENT NONE	, t
FIRE HYDRANTS (NO & LOCATION) 2 OUT	rside
FIRE HOSE (NO. & LOCATION 1 S/W CO	ORNER 211
NONE Inside	
REMARKS:  ACCESS VIA PANORAMA A	r PICO
	CGRG REP. 11-88870







#### NATIONAL MOLASSES BERTH 242 EXISTING LIQUID BULK (CHEMICAL) FACILITIES

Name & Location: Berth 242, Pier J - West side of Pier J about

0.60 miles south of Panorama Drive

Operated by: National Molasses Terminal

#### Wharf Description

Length (ft.): 150

Width (ft.):

Lighted: Yes

Load Capacity (lb./sq.ft.):

Design Depth: Pierhead - 36 ft.; 9 ft. out -42 feet

Height of Deck @ MLLW (ft.): 15.2

Type of Construction: Concrete piled, concrete decked marginal.

offshore wharf with one 30' wide approach

from dike

Open Storage Area (sq.ft.) & Location: None

Mechanical Handling Facilities: Pumping and pipeline system designed to load and unload products from barges, ships, railroad cars, and trucks.

Storage capacity is 18,612,000 gallons with tanks ranging in size from 6,000 to 3,000,000 gallons.

Highway Connections: Via Pier J Avenue (marginal), Panorama Drive

(access)

Railway Connections: Railroad tracks service the area

Water Supply: None

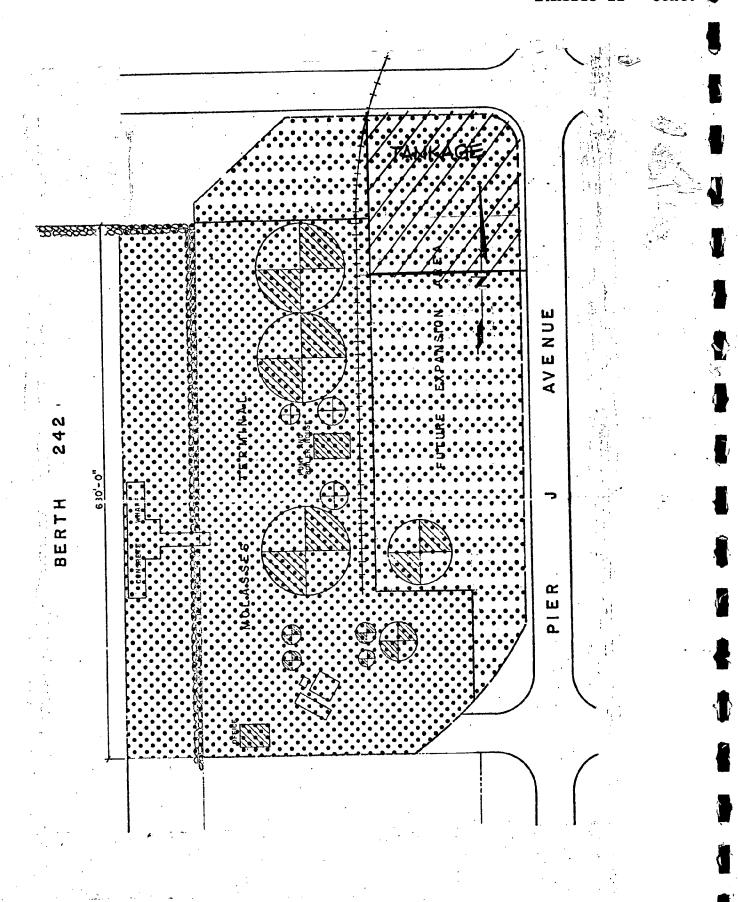
Electric Supply: None

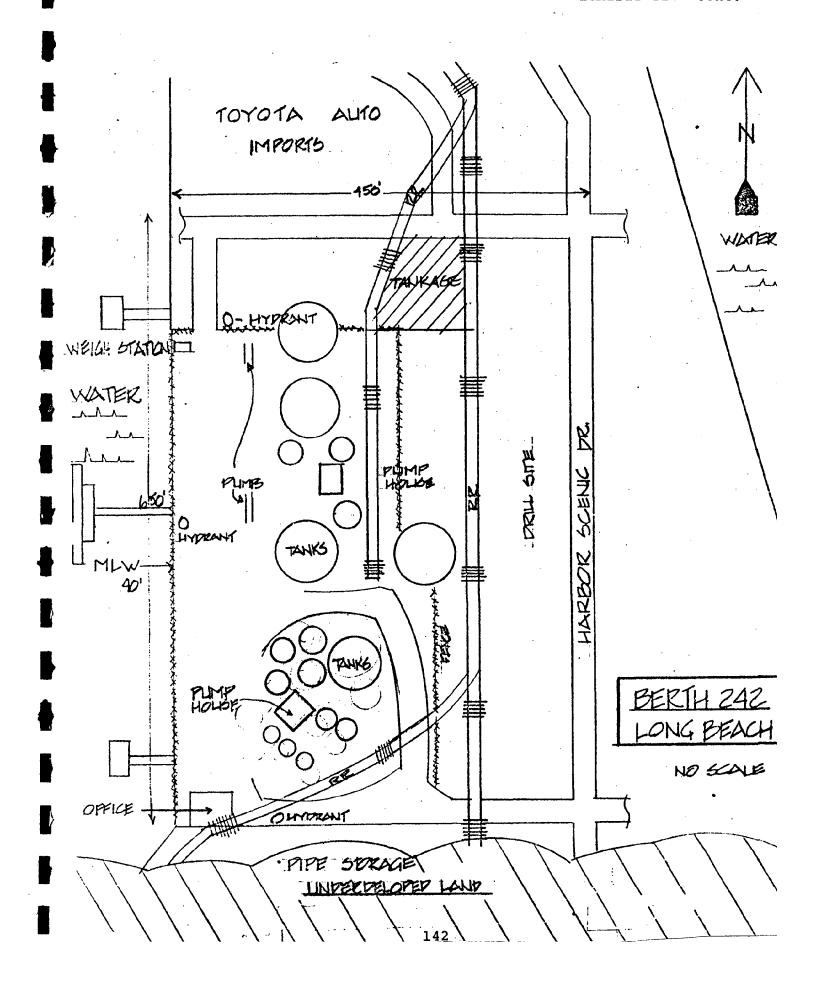
Fire Protection: Fire hydrants and Watchmen

## WATERFRONT FACILITY SURVEY

	e de la companya de	Surve	y Date: <u>NOV 1 1976</u>
FACILITY: BERTH 242		PIER	NOJ
LOCATION: SOUTHEAST BAS	IN, PIER J		·
OWNED BY: CITY OF LONG Name	BEACH	li37-00li1 Day Phone	SAME Night Phone
P.O. BOX 2011 Business Add	O, LONG BEACH, 908	61	
OPERATED BY: <u>NAT. MOLASSE</u> Name	s co.	135-5623 Day Phone	Night Phone
1395 PIER J Business Add EMERGENCY PHONE NUMBERS:	AVE., LONG BEACH		· · · · · · · · · · · · · · · · · · ·
JOHN SHERMAN	TERM MGR.	NMC	(213)423-5198
ARMANDO CALDERON		NMC	(213) 591-0475
LEE WALTER	ASSIT. MGR.	NMC Firm	(213) 426-5786 Emerg. Phone
PURPOSE FOR WHICH USED:	•		<b>5</b> ,
VESSELS ACCOMMODATED: TAN STEAMSHIP LINES REGULARLY I DESCRIPTION PIER:		:	
LENGTH OF PIER_	6001	WIDTH OF PIER	901
LENGTH OF APRON	6001	WIDTH OF APRO	N <mark>60'</mark>
DEPTH ALONGSIDE (MLW)	401	USABLE BERTHI	NG SPACE LOO!
HT. DECK ABOVE MLW	15'	LOAD CAP, PER	SQ. FT. N/A
TYPE OF CONSTRUCTION	•	•	
LIGHTED OR UNLIGHTED	MERCURY VAPOR		
TRANSIT SHEDS: No. N	IONE No.		No
TYPE OF CONSTRUCTION	THERE ARE STORAGE	TANKS (SEE MAP	<b>)</b> · · · · · · · · · · · · · · · · · · ·
LENGTH AND WIDTH (FT)	N/A		
HEIGHT INSIDE (FT)	N/A		
TOTAL CARGO FLOOR (SQ F	T) <u>N/A</u>		
LOAD CAPACITY (#/ SQ FT	)_N/A	•	
LOCATION OF AUTHORIZED PAR	KING NEXT TO OFFICE		

ILITIES: POWER AVAILABLE TO VESSELS: VOLTAGE <u>NONE</u>	CAPACITY	N/A
EMERGENCY POWER ACCOMMODATIONS: NONE		Photoside - the Second open to - green a
water supply available to vessels: amount 3/2" H	IOSE (ONE)	
CARGO HANDLING DEVICES: ONLY THE STORAGE TANKS AN	D THE PIPES T	HRU WHICH THE
MOLASSES PASSES	***************************************	The Control of the Co
ACCESS:		•
RAILWAY: 1 TRACK 600' BEHIND TANKS		Park & a strongly theoretic distribute to a grant gard
VEHICULAR: FROM PIER J AVE. TOYOTA YARD	·	-
URITY:		
WATCHMAN SECURITY OWNER Type/Agency	1	8 DAYTIME
LOCATION OF WATCHMAN IN OFFICE		-
FENCING CYCLONE/ WITH BARBED WIRE	PE	RIMETER
Type		Area
F. FIGHTING FACILITIES:		
SPRINKLER SYSTEM: AREA COVERED NONE		
FIRE ALARMS: (NO & LOCATION) PHONE IN OFFIC	E	
PORTABLE EXTINGUISHERS (NO.) 3 INST	DE NONE	OUTSIDE
FOAM STOCK AND EQUIPMENT NONE		
FIRE HYDRANTS (NO & LOCATION) 2 IN OFFICES		
FIRE HOSE (NO. & LOCATION NONE Outside		<del></del>
NONE Inside	•	Physical production of the Control o
REMARKS:		





#### Terminal Maintenance Inventory

The Harbor Department Maintenance Division has principal responsibility for a variety of facility maintenance programs which incorporate special safety provisions. These programs cover all Harbor owned facilities which are either municipally or lessee operated (See Exhibit 12).

The preventive maintenance program involves repair, upgrading and periodic inspections of warehouses, buildings, transit sheds and other terminal structures and facilities. It covers repair and inspection of wharves, especially when a change of operator is involved. Cargo handling equipment, generally maintained by stevedoring companies, is periodically inspected to assure that safety and maintenance standards are enforced. Cargo transporting equipment such as trucks, railroads and ships are maintained by owners. Roadway repair is implemented by contractors under the direction of the Maintenance Division, except that the Engineering Division coordinates contracts on major jobs. The Maintenance Division operates and coordinates various heavy equipment belonging to the Port which may be used in cases of oil spill or emergency repairs.

The normal maintenance program encompasses lease and assignment areas, roadways, Port owned railroads, Port utilities, and oil pipelines. Routine maintenance is performed by the Maintenance Division, while maintenance due to damage is the responsibility of tenants. If tenants do not perform repairs the Maintanance Division does and bills the tenant. The primary responsibility for railroad repairs belongs to the railroad company using those lines. The Maintenance Division makes only minor repairs. Both utilities and oil pipelines are the responsibility of individual concerns involved.

The fire system maintenance program covers inspection, certification and installation of extinguishers, sprinklers, fire boats, alarm systems, and special fire system requirements. Responsibilities for inspection and maintenance and certification are distributed among the Harbor Department, the Fire Department and the Port tenants. Table 9 lists Port tenants, their locations, and the distribution of fire system maintenance responsibilities between the Harbor Department and tenants. Most of the maintenance responsibilities are assigned through the lease to the tenants. Exhibit 12 also shows a typical example of an attachment to the leases which assigns such maintenance responsibilities.

#### I. PREVENTIVE MAINTENANCE PROGRAM

- A. Warehouses, Buildings, Transit Sheds.
  - 1) Move-out & Move-in inspections. (Tenant change). Items to be repaired are listed; repair work costs billed to tenant responsible (except where lease provisions state otherwise). Any necessary upgrading would take place at this time (at Harbor Dept. expense.) Facility should be in good and safe condition when new tenant moves in.
  - 2) Included are plumbing & fixtures, wiring, misc. electrical, windows, doors, area lighting, fencing, walls, floors, roof, misc. utilities, painting, fire protection, outside areas, loading docks, Duty to repair spelled out in lease.
  - 3) Routine, periodic inspections take place; repairs needed are taken care of in same way.

#### B. Wharves

- Includes piling, fender system, camels, floating docks, piers.
- 2) Move in Move Out inspections & duty to repair as in "A" above.
- 3) Routine, periodic inspections as in "A" above.
- C. Cargo Handling Equipment
  - 1) Fork Lifts (Maintained by: Stevedoring Co.)
  - 2) "Big Red's" (Maintained by: Stevedoring Co.)
  - Cranes

TYPE OF	MAINT,	FREQUENCY OF INSPECTION	FREQUENCY OF	LOAD TEST/
CRANE	BY		MAINTENANCE	CERTIFICATION
Container	Tenant	Hourly/Daily/ Weekly	Hourly/Daily/ Weekly	Annually/ Quad. Annually
Gantry	Maint	Daily/Weekly/	Dajly/	Annually/
(Pier D)	Div.	Quarterly	Weekly	Quad. Annually
Ship	Owner	18 mos (US Flags) Am. Bureau of Shipping (ABS)	18 mos. (US Flag) (ABS)	Annually (USCG) (ABS)
Floating	Owner	Daily/Weekly (ARS) (USCG)	Hourly/Daily/ Weekly (AES)	Annually/ Quad. Annually
Land	0wner	Hourly/	Hourly/	Annually/
(Portable)		Daily	Daily	Quad. Annually

TABLE 8

- 4) Transtainers (Maintained by: Stevedoring Co.)
  - Lumber-type container carriers (maint. by Steve. Co.)
- D. Cargo Transporting Equipment
  - Trucks & trailers (maintained by: owners, effectiveness varies)
  - 2) Railroad (owner maintained)
  - 3) Ship (owner maintained)
- E. Roadways
  - Patch paving (sustaining contract) at direction of Maint. Division.
  - 2) Major jobs (Engineering) sustaining contract.
- F. Maintenance Division Equipment (all on P.M. schedule by hours or mileage)
  - 1) Trucks, cranes, misc. heavy equip. (could be required for emergency repairs at any port facility).
  - 2) Big Dipper (spill clean-up)
  - 3) Portable generator(s) (Energy-power)

#### II. NORMAL MAINTENANCE

- A. Lease areas, Assignments, etc.
  - 1) Maintenance done after damage occurs.
    - a. Damage report made out by security, tenant, or others.
    - b. Tenant or other person responsible may repair, contract out, or have work done by Maint. Division. (Duty to repair spelled out in lease, assign., agreement, etc.). If tenants, responsibility, work to be done in 30 days or Maint. Division does work & bills tenant (RWO).
    - c. Problems in getting tenants to do work in reasonable length of time, but still insisting on Maint. Division not doing repair.
  - 2) Routine or periodic maintenance (By Maint. Div.)

#### B. ROADWAYS

- Periodically scheduled resurfacing or reconstruction. (Engineering/budgetary decision) can be bid or sustaining contract or maintenance (partially).
- 2) Patch paving.
- C. RAILROADS (Most Port owned; some S.P.R.R.)
  - Responsibility of S.P.R.R. (usually).
  - 2) Minor repairs sometimes done by Maint. Division.
- D. UTILITIES
  - 1) WATER (Primarily by Maint. Division, including periodic inspection & testing).
  - 2) ELECTRICAL (Edison)
  - 3) GAS (City of Long Beach)
  - 4. PHONE (General Telephone Co.; ITT in Adm. Bldg.)
  - 5. FIRE ALARM (City or Tenant)
- E. OIL PROPERTIES (by individual oil co.)

#### III. FIRE SYTEMS (Maintenance of)

- A. Extinguisher inspection and certification
  - 1) Harbor Dept. (by Maint. Div.)
  - 2) Tenants (Tenant's contractors)
- B. Sprinklers in Buildings (Maint. & Test: City or Tenant)
- C. Fire boats (Long Beach Fire Dept. & Harbor Dept.)
- D. Alarm Systems (Maint. & Test: City or Tenant)
- E. Fire system requirements in leased facilities (insp. & test: City or Tenant)
- IV. SPECIALIZED MAINTENANCE TASKS, INSPECTIONS, TESTS, AND/OR CERTIFICATIONS RELATIVE TO TRANSPORT, STORAGE, LOADING, OR UNLOADING OF HAZARDOUS MATERIAL.

None known for Maintenance Division. Could be same for specialized tenants.

#### V. PROCEDURES IN EMERGENCY FOR MAINTENANCE DIVISION PERSONNEL.

- A. Oil (or other) spill in Harbor: ordinarily not responsible. (Big Dipper could be converted).
- B. Fire: ordinarily not involved.
- C. Power failure: Maintenance Division has a few small portable generators.
- D. Communications failure: radio back-up in maintenance/ security vehicles. (3 base stations).
- E. Pipeline break: If water, maint. division responsible. Others by owner.

	MAINTELANCE RE	SPONSIBILITY	
LESSEE	INSIDE	OUTSIDE	
Forest Terminals Corp.	· L	н	911, 961 Pier "A" Avenue
Atlantic Richfield Co.	L ,	L	E-118, G-212, 213 155 Pier G Avenue
Powell River-Alberni Sales Corp.	Ĺ	H	Fier 2; 52,53,54 (HD Bldg, 29)
Powell River-Alberni Sales Corp.	L	L .	(HD Bldg. 10, 107, 171)
Powerine Oil Company	L i	L.	1405 W. 7th
Thums	L	L	880 Windham
Texaco, Inc.	L .	L	Channel 2, Berths 84-87
Koppel	L	L	
Exxon	L	L	A-(1-5) & (11-33) F-(6-10) & (201-211)
National Molasses	L	L	987 Pier A Ave./1395 Pier J Ave
Canal Industrial Park, Inc, (PASHA)	<b>L</b>	<b>L</b>	680 Pier E Avenue/387
Baker Commodities	. <b>L</b>	L	D-32 /530 Pier "D" Avenue
Chevron-USA	L	L	A-11
Cooper Stevedoring Co. Inc.	L	, L	A-9, 10, 201
Crescent Terminals	L	L ·	1251 Pier "F" Avenue
Fremont Forest Products	L	L	1933 Edison Way
Gas Dept. City of Long Beach	L	L	1256 Pier "J" Avenue
Great Lakes Carbon	L	L	1241 Pier "G" Avenue
IMC Carbon Products	. г	L	1029 Pier "G" Avenue
International Transportation Ser.	L .	L	A-11
KMHC, INC. Kaiser Gypsum	L	L	1380 Water St.
Lomita Gasoline	L	L	A-9 (Rm. in end of Tr. shd.)
Long Beach Terminal Co. (Amorient 011)	L .	L	1920 Lugger Way
Madison Interseas	. L	L	
Maersk Line Pacific Inc.	L	L.	G-228, 229
Marine Metals, Inc.	L	L	Warehouse #5
Marine Terminals	, L	L	920 Pier "A" Avenue
Metropolitan Stevedore Co.	L	L	G-212-215
National Gypsum Co.	L	L	Channel, Berth 83
Pacific Maritime Ser. (PCT)	L	L .	J-245-246 .
Sealand Ser.	L	L	G-227-230
United States Lines	L	L	G-230

L-BY LESSEE H-BY HARBOR DEPT.

LESSEE	Powell River-All	berni Sales Corp	oration		
LEASE AREA	1570 West Eightl	n Street			
H. D. BUILDI	NG NO. Whse #6	(Bldg 230) MA	AP REFERENC	E HD 3-1	23
COST OF UTIL	ITY SERVICES TO	BE PAID BY:	LELECTRI	CAL	L CAS
			LWATER	L JANITOR	L TRASH
DUTY TO REPA	IR OR MAINTAIN:		H HAR	BOR	L LESSEE
CARPENTRY	LInside	H Outside			
ELECTRICAL	LInside	H Outside		*	
FIRE PROTECT	ION L Inside	L Outside			
GROUNDS		* H Outside	(Paving)		
PAINTING	LInside	H Outside	٠		
PLUMBING	LInside	L Outside			

#### SPECIAL PROVISIONS:

1. Subject to the duties and responsibilities of the City as otherwise provided herein, Lessee accepts the premises "as is", and covenants that it will during the term well and sufficiently repair, maintain, cleanse, amend and keep the premises with the appurtenances in good and substantial repair, and all fixtures and things thereto belonging, which at any time during the term shall be erected and made, when, where and so often as need may be, excepting reasonable wear and tear and damage by fire, earthquake, flood, lighting, tempest, Act of God, or by or arising as a result of war, riot, civil disturbance, vandalism, sabotage or explosion, and any repairs due to damage to, or deterioration of, or lack of repair of the structure or foundations or walls or roof of the premises, except where such damage has been caused by the negligence of the Lessee, its officers, agents or employees.

City agrees that upon receipt of written notice from Lessee of the necessity thereof, it will make, at its sole cost and expense, all structural and exterior repairs, including all repairs to the roof, exterior walls, floor, pilings and pavement, resulting from ordinary wear and tear and action of the elements, and except for reasonable wear and tear and action of the elements, City shall have no obligation to make any repairs or perform any maintenance; provided, however, where damage is caused by the negligent or intentional acts of Lessee, its employees, officers or agents, City may make all necessary repairs, and Lessee shall reimburse City only for the reasonable cost of that portion of such damage as is directly attributable to said negligent or intentional acts.

All fire protection sprinkler systems, fire hydrant systems, standpipe systems, fire alarm systems, portable fire extinguishers and other fire-protective or extinguishing systems or appliances shall be maintained by Lessee at all times except where repairs or replacements are occasioned by normal wear tear, which shall be the responsibility of the City.

#### Terminal Safety Provisions

Other sections of this text have addressed vessel safety and, in particular, the roles of the Coast Guard, the Port Pilots, the City and various other government agencies in Port safety. Three agencies are principally involved on a day-to-day basis enforcing safe operations in the Port. These include, first, the Harbor Department through its Wharfinger and Security personnel, second, the Long Beach Fire Department through its field officer assigned to the Port, and, third, the Coast Guard through its Captain of the Port's officers.

Principal private on-line responsibilities for terminal safety rest with the stevedoring companies and terminal operators. In order to obtain a clearer understanding of the hazardous material handling safety concerns at the terminals, the Port invited representatives of stevedoring companies, terminal operators, and the Coast Guard to participate in a discussion of their respective roles in promoting safety (See Exhibit 13). In addition, participants were requested to submit information regarding any safety plans and procedures which they typically utilize with respect to hazardous materials (See Exhibits 14 through 17, and Appendix C).

HAZARDOUS MATERIAL HANDLING SAFETY MEETING Measures and Plans

Held in the Harbor Administration Building on May 15, 1979 between the L. B. Harbor Port Staff and Stevedoring Companies

#### Participants:

W. A. Hartmann, Safety Officer Dr. John Bollinger, Environ. Mgmt. Adolph Zetterberg, Asst. Dir. Öperations Joe Chesler, Environ, Mgmt. Jeane Loy, Safety Secretary Dick Kolodziejski, Safety Officer Lt. N. S. Porter Bart McGhee Al Ames Gene Borg Bob Raymond David Hoppes

Harbor Department 11 / Crescent Terminals U. S. Coast Guard Pacific Maritime Assoc. Metropolitan Stevedore

Marine Terminals

Mr. W. A. Hartmann, Port Safety Officer called the meeting to order, introduced the participants and made a few remarks on the purpose of the meeting. He presented Dr. John Bollinger, coordinator of the Port Risk Management Plan, who proceeded to outline the Coastal Act mandates for the Port Master Plan. He stressed that the California Coastal Commission had conditioned the certification of the Port Master Plan upon completion of a Risk Management Plan. He indicated that the Coastal Commission certification was essential to provide the Board of Harbor Commissioners with authority to approve Coastal Development Permits for Port developments. This would provide local control, and reduce long delays in the bureaucratic process.

He further pointed out that the Port is currently engaged in the first thase of the Risk Management study, which involves gathering information on hazards in the Port and existing safety measures and plans.

After the latter brief introduction a discussion ensued which is summarized below.

Mr. Dick Kolodziejski of Crescent echoed the positions of the other representatives of the stevedores by indicating that he had received inadequate notice of the meeting and was not prepared to present any documentation on safety at this time.

Mr. Hartmann re-emphasized that in order to call this meeting it was necessary to have Mr. Frisch of P.M.A. make the contacts and explain what the meeting was about. Unfortunately a sufficient explanation was not issued.

#### Hazardous Material Meeting

Dick Kolodziejski indicated that in all the years that he has worked in the Port this was the first time in his recollection that a collective meeting of representatives of stevedoring companies had been called by the Harbor Department. Bob Raymond of Metropolitan suggested that this could be an opportunity to improve communications on Port safety issues.

A number of problems were identified including:

- Insufficient notification of contents of foreign containers.
- 2. Dangerous cargo manifests are not always correct.
- 3. If containers are unmarked as to hazards, no special safety measures are taken. Also, with hazardous containers handling procedures do not differ significantly.
- 4. Stevedores expressed grave concern about exposure to asbestos and other carcinogens. They refuse to handle asbestos unless properly packaged in metal drum or rigid containers. Bags of asbestos are easily punctured by forklifts causing exposure.
- 5. Supervisors of stevedore crews are trained in safety requirements but not always all dock workers.
- 6. Many containers are improperly labeled but there is no way of knowing short of checking the contents, which is seldom done. Containers may contain many different items.
- 7. There is confusion and inconsistencies among various regulations and authorities. Some say you must unload and store commodities in a specified way, and others say you shall not.
- 8. Stevedores believe there is deliberate misrepresentation of commodities by shippers in order to economize and facilitate processing.
- 9. Stevedores would like to see more support from the Port in coordinating safety and getting more uniform standards.
- 10. There is currently no direct procedure to notify the Port of a spill. Reports are sent to D.O.T. in Washington.
- 11. The Port of L.B. does not, according to the stevedores, have designated people to go to all facilities to check handling of hazard material. Reference was made to Monte Gentile, Port of L.A. Warden, who acts as a liason between stevedores

#### Hazardous Material Meeting

and various regulatory agencies. In the Port of L.B. there is some confusion as to who has responsibilities for notifying whom. Mr. Zetterberg stressed that our Harbor Security office does have a complete procedure for handling and reporting our accidental spills of all kinds.

- 12. Some concern was voiced regarding the inadequacy of the existing "pay phone" system available at most terminals for any emergency calls. These phones are either out of order or in use and are, therefore, not available should emergencies arise. A direct line to the Fire Department or Port Security was suggested. Mr. Hartmann pointed out that Port Security has a direct line to the Fire Department.
- Dr. Bollinger acknowledged the problems that were cited, but indicated that for the purpose of this study he would like the group to respond with some of the hazard material handling measures, procedures, and training provisions which are currently implemented by the stevedores. A number of these measures were identified as follows:
- 1. Safety officers for various stevedore companies provide hazardous material handling packets when they receive adequate notice of the pending arrival of various hazardous materials according to C.F.R. 49 hazardous classes. A sample of this packet is to be provided for our review.
- 2. Notices of hazardous cargo shipments are required by the Coast Guard, Cal/OSHA, Fed/OSHA, D.O.T. and other agencies prior to shipment.
- 3. While stevedore companies compete, they cooperate closely when it comes to a hazardous material incident or spill, and are willing to exchange needed information.
- 4. When a spill occurs they immediately remove their personnel until they can identify the substance. Then they work to minimize risks and take extreme precautions. They contact each other and notify key government authorities such as the U.S. Coast Guard or Long Beach Fire Department.
- 4. a. Many of the companies utilize private industrial hygienist consulutants to advise them whenever hazardous materials are to be received or when there is an accidental spill.
- 5. They do not open a container unless and until they know what is inside, because if it is cyanide gas vs. talcum powder, they may not be prepared. They must know what the material is in order to deal with a spill.

#### Hazardous Material Meeting

- 6. They prefer to go to a single source for coordination and regulations rather than many sources.
- 7. Mr. A. B. Zetterberg, Assistant Director of Port Operations, indicated that the Port has rejected some hazardous materials due to packaging and handling inadequacies, such as sulphur clinkers.
- 8. Employees are instructed that if they break up a container they should immediately notify their supervisor, and notify all nearby employees if any leaks or damage occur.
- 9. When employees come to work they are given a notice of safety procedures, and for those who are illiterate a "gangway talk" on safety is provided by the supervisor. Language may be a problem in some cases, however,
- 10. The hazardous material handling packet mentioned above may be accompanied by various protective gear appropriate to the specific hazard, such as masks, coveralls, fresh air tanks, and other kits.
- 11. A hazardous material documentation discrepency sheet, which logs the time of exposure and other on-site conditions, is also provided with the hazardous material package.
  - 12. Outside specialists are usually called in to clean up hazardous material spills.

The stevedores made a number of recommendations for improving Port Safety as follows:

- 1. Provide direct emergency phone hookups to Fire Department from terminals and paint the telephone numbers on a wall in a conspicious place.
- 2. Provide a coordinator to facilitate interagency notification and response in case of emergencies.
- 3. Support the creation of standardized and unified safety regulations.
- 4. Facilitate improved communication between Port and stevedores on safety concerns.
- Mr. Hartmann suggested that another meeting be scheduled on May 21, 1979 at 10:00 a.m. at which time safety plans and related materials would be submitted by the stevedoring companies. A number of the participants suggested that some of the other private companies should also be represented, indicating Cooper, CSC, ITS, Sales Brothers, Matson, etc.

The meeting was adjourned

Compiled by Dr. John Bollinger

JB:jm1

# PORT OF LOS ANGELES PORT WARDEN DIVISION

STANDARD OPERATING PROCEDURE.

SUBJECT: Handling of Radioactive and/or Fissile Materials

Port of Los Angeles - Tariff No.3 - Section 1392

No person shall store, keep, handle, use, dispense or transport at, in, or upon any facility or other property under the jurisdiction and control of the Board of Harbor Commissioners of the City of Los Angeles, any special nuclear material, including, but not limited, to Uranium 233, Uranium 235, Plutonium 239, Plutonium 241; any source material, including, but not limited to, uranium and/or thorium; any irradiated fuel elements; any new reactor fuel or elements thereof; any radioactive waste material; or any radioactive material moving under special permit or escort without at least 48 hours' prior written notice to and receipt of special permit from the General Manager of the Los Angeles Harbor Department, provided, however, that only advance notice is required for the movement of medical or industrial isotopes other than those specifically included in the aforementioned, when packages, marked, labeled and limited as to quanity and radiation emissions in accordance with Interstate Commerce Commission and United States Coast Guard regulations relating to the transportation of explosives and other dangerous articles.

The requirements of this Item shall be in addition to the requirements of all laws and regulations promulgated by other governmental agencies exercising jurisdiction over radioactive and/or fissile materials.

California Admisistrative Code - Title 17
Article 3 - Section 30373

30373 INTRASTATE TRANSPORTATION REGULATIONS

No person shall transport any radioactive material outside the confines of his facility or other authorized location of use, or deliver any radioactive material to a carrier for transportation, unless he complies with the applicable requirements of the regulations, appropriate to the mode of transport, of the United States federal government (10 CFR Part 71; 49 CFR Parts 170-189; 14 CFR Part 103; 46 CFR Part 146; and 39 CFR Parts 14 and 15) insofar as such regulations relate to the packaging of radioactive material, marking and labeling of the packages, loading and storage of packages, placarding of the transportation vehicle, monitoring requirements and accident reporting. Physicians are exempt from the requirements of this section to the extent that they transport radioactive material for use in the practise of medicine.

In the Los Angeles County Area the agency which controls radioactive material is the Los Angeles County Health Department, Radiological Service Division.

#### A. Requirements for Export

- 1. Forty-eight (48) hour prior notice to Los Angeles Harbor Department (Port Warden Division) and Special Permit issued prior to delivery to Port.
- 2. Prior to delivery to Harbor destination a certification of safety from:

Los Angeles County Health Department, Radiological Service Division, 313 North Figueroa, Los Angeles, 90012, Phone: Day-974-7891 Night-974-1234

- 3. Material to be packaged as to United States Department of Transportation Specifications.
- 4. Material to be delivered as close to vessel's departure time as possible.
- 5. If possible, material to be loaded directly from vehicle to vessel. If material is held at Terminal prior to loading, time limit shall be twenty-four (24) hours. Material shall be held in an isolated area and protected at all times.
- 6. A Deputy Port Warden shall moniter delivery and loading or storing of material as required.
- 7. Notification of arrival time and location shall be made to Los Angeles City Fire Department (Fire Prevention Bureau Phone 548-7531) and United States Coast Guard (Captain of the Port Phone 590-2341).

  Copy of permit to be sent to both agencies.

#### B. Requirements for Import

- 1. Prior to material being unloaded from vessel a certification of safety shall be obtained from Los Angeles County Health Department. If not possible to certify on vessel it shall be certified immediately upon unloading.
- 2. Material shall be packaged as to United States Department of Transportation specifications prior to transport.
- 3. Prior to arrival, notification shall be made to Los Angeles Harbor Department (Port Warden Division), Los Angeles Fire Prevention Bureau and United States Coast Guard (Captain of The Port).
- 4. Material shall, at all times, be monitered by supervisory personnel and kept secure and isolated as per instructions of No.#5 under Exports.
- C. Requirements for Accident or Mishap Incidents
  - 1. Clear area of all personnel immediately.
  - 2. Notify Los Angeles Harbor Department (Port Warden Division Phone 548-7892), Captain of The Port, and Los Angeles Fire Department so that a security zone can be established around scene as soon as possible.

Continued Page 3

- 5. Notify Los Angeles County Health Department, Radiological Service Division, Phone: Day-974-7891 Night-974-1234.
  - Notify Shipper of material if possible, major companies maintain emergency unit for such incidents.
- 4. Steps to be taken to make the area safe shall be set by the Los Angeles County Health Department offical responding to the scene.

#### LAWS REGARDING RADIOACTIVE MATERIAL

California Admisistrative Code - Title 17

Section 30281 Security & Fire Protection of Stored Material Requires material to be locked up and protected during storage.

Section 30294 Report of Theft or Loss
Requires immediate report by phone to State Health Department
and confirmation by letter, 714 "P" Street, Sacramento, CA

Section 30295 Report of Incident

- A. Immediate report to State Health Department if exposure serious, loss of one week work of facility, or dammage is in excess of \$100,000.
- B. Twenty-four (24) hour notification if exposure is minor, loss of one day work or more of facility, or damage is in excess of \$1,000.

Code of Federal Regulations - Title 49.

Section 177.842 Material in Motor Vehicle-Trailer-Storage Location Amount limited to total of transport index numbers taken from individual packages and not to exceed fifty (50). Distance to persons set by table in this section based on total of transport index numbers from packages.

Section 173.393b Foreign Package Requires material to be registered with Department of Transportation, Office of Hazardous Materials upon entry to country.

Section 176.710 Mishap on Vessel
a. Fire-Collision-Breakage Material segregated from unnecessary contact with persons.
Obvious leakage or inside container appears damaged-area isolated so as to prevent contact in any way with persons.
No one to handle or stay in area unless supervised by qualified personnel.

b. Hold or compartment in which mishap has occurred shall be decontaminated before use again, Section 176.715.

Section 177.861 Accidents on land Requires carrier to notify Shipper. Same procedure as in Section 176.710.

Section 171.15 Report required
Report required by carrier to Department of Transportation of incident (accident-droping-breakage-etc) Railroad 174.45 - Vessel 176.48 - Vehicle 177.807.

#### PORT OF LOS ANGELES

#### PORT WARDEN DIVISION

FCR BREAKBULK IN TRANSIT Sheds

#### HAZARDOUS MATERIALS STORAGE CUIDE

	<u> </u>	·		L									
Pacific Maritime Ass. Mr. Allen Ames  U.S. Coast Guard Ens. John Kopeck  L.A. Fire Prevention Bureau Insp. Roger Shouse  L.A.H.D. Port Warden Div. Capt. E.C. Henry	Flammable Compressed Gases	Nonflarmable Compressed Gases	그럼	Flammable Solids Combustible Materials	larmable Solids Labele pontaneously Combustib	Flanmable Solids Labeled Dangerous When Wet	Oxidizers	Organic Peroxides	Class A Poisons	Class B Poisons or Irricating Materials	Corrosive Materials	Ocher Regulated Materials (ORM)	Organic Material
Flammable Compressed Gases	-	0	2	1	2	1	2	3	1	1	3	1	0
Nonflammable Compressed Gases	.0	-	2	0	1	.0	0	2	1	1	3	1	o
Flanmable or Combustible Liquids	2	2	-	2	2	2	2	3	2	2	3	1	0
Flammable Solids Combustible Naterials	1	0	2	-	1	1.	1	2	2	. 2	3	1	o
Flammable Solids Labeled Spontaneously Combustible	2	1	2	1	· <b>-</b>	1	2	2	2	2	1	1	0
Flanmable Solids Labeled Dangerous When Wet	1	0	2	1	1	-	2	2	2	2	1	1.	Ú,
Oxidizers	2	0	2	1	2	2	-	2	1	1	2	1	0
Organic Peroxides	3	2	3	2	2	2	2	1	2	1	2	1	0
Class A Poisons	1	1	2	2	2	2	1	2	-	0	2	1	2
Class B Poisons or Irritating Materials	1	1	2	2	2	2	1	1	0	_	2	1	2
Corrosive Materials	3	3	3	3	1	1	2	2	3	3	-	1	2
Other Regulated Materials (ORM)	1	1	1	1	1	1	1	1	1	1	1	1	0
Organic Materials	0	Ó	0	0	0	0	0	0	2	2	2	0	-

LEGEND: 0 - No segregation required.

1 = 19 feet with inert cargo between or 30 feet separation. 2 = 30 feet with inert cargo between or 60 feet separation.

3 - Separate buildings or separation to either ends (not sides) of building.

On No. 1 & 2 fire wall divider with fire door closed may be used in lieu of required separation.

#### FOREMEN'S GUIDE TO SEGREGATION OF BREAKBULK HAZARDOUS MATERIAL (SHIP)

#### I. Legend

#### A. On Deck

- (0) No segregation required
- (1) 10 ft separation
- (2) 10 ft separation
- (3) Separate by one hatch length
- (4) Separation by vessel's bridge or superstructure
- (\*) Consult with supervision on stowage of explosives

#### B. Under Deck

- (0) No segregation required
- (1) 10 ft separation
- (2) Separate 'tween deck holds or separate hatches
- (3) Same hatch but one 'tween deck hold intervening or separate hatches with one hatch intervening
- (4) Separate hatches with one hatch intervening
- (\*) Consult with supervision on stowage of explosives

		1(4)	1(9)	1(c)	2(A)	2(8)	3	4(A)	4(B)	4(c)	5(A)	5(B)	6(A)	6(B)	7	8	9
EXPLOSIVES A	1(A)			•		,		<del></del>				<del></del>		<del></del>			
EXPLOSIVES B	1(B)				•	•	•	•	•	•	•	4	2	2	2	4	0
EXPLOSIVES C	1(c)	- i .	_	-	•	2	•	3	3	4	4	4	2	2	2	2	0
					Z	1 -	2	2	, <b>2</b>	2	2	2	1	0	2	2	0
FLAMMABLE COMPRESSED GASES	3(V)	4	4.	2		0	2.	1	2 .	1	2	4	0	0	2	1	0
NONFLANDABLE COMPRESSED CASES	2(B)	2	2	1	0		2	0	1	0	0	2	0	0	1	0	0
FLANGUABLE OR COMBUSTIBLE LIQUIDS	3	4	4	2.	2	2 ·		2	2	2	2	3	2	0	2	1	0
FLANCIABLE SOLIDS	4(A)	4	3	2	1	0	2		1	1	1	2	0	0	2	1	0
FLAMMABLE SOLIDS LABELED SPONTANEOUSLY COMBUSTIBLE	4(B)	4.	3	2	2	1	2	1	·.	1	2	. 2	1	0	2	1	
FLAMMABLE SOLIDS LABELED DANGEROUS WHEN VET	4(c,	4	4	2	1	O	2	1	1		2	2	0	0	. 2	1	0
OXIDIZERS	5(A)	4,	4	2	2	0	2	1	2	2		2	0	1	1	2	0
ORGANIC PEROXIDES	5(8)	4	4	2	4	2 .	3	2	. 2	2 .	2		2 .	1	2	2	0
CLASS A POISONS	6(A)	2	2 .	ì	0	0	2	0	1	0	0	2		0	1	0	٥
CLASS B POISONS OR TRRITATING MATERIALS	6(B)	2	2	0	0	0	0	0	0 -	0	1	1	0		D	0	
RADIOACTIVE HATERIALS	,	2	2	2	2	1	2	2	2	2	1	2	1	о .		2	0
CORROSIVE MATERIALS	8	4	2	2	1	0	1	1	1	1	2	2		0	2.		. 0
OTHER REGULATED (ORH) MATERIALS	,	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

#### II. Special Notes

- A. The following commonly handled cargoes are required to be stowed the same as flammable solids:
  - (i) Cotton
  - (ii) Hay
  - (iii) Fibers (baled) such as jute, hemp, kapock, sisal, etc.
- B. This is only a guide for minimum separation distances for breakbulk hazardous materials. Personnel responsible for assigning proper stowage of hazardous materials must comply with 49 Code of Federal Regulations Parts 100-199.
- C. 49 CFR 100-199 may require a more stringent segregation for particular hazardous materials than this guide.
- D. When in doubt, ask proper supervision and/or check with chief mate.

SAMPLE

HAZARDOUS MATERIALS

DLING PACKET : ,

MATERIAL PHTHALIC AN HYORIDE (SOU

161

#### HAZARDOUS MATERIALS HANDLING

#### NOTIFICATION

YOU WILL BE HANDLING A CARGO CLASSIFIED AS "HAZARDOUS".

Handle the packages carefully, avoid damages. In the case of leaks or spills, notify supervision <a href="IMMEDIATELY">IMMEDIATELY</a> and DO NOT TOUCH THE CONTENTS.

Read instructions on the labels or packages. When personal protective equipment is provided, USE IT.

Work Safely,

MARINE TERMINALS CORPORATION

#### IMPROPER DOCUMENTATION REPORT

# (TO BE COMPLETED WHEN IMPROPER DOCUMENTATION WAS PROVIDED)

	DATE:	<del></del>	 		
HAZARDOUS MATERIAL(S)		٠.			
CONTAINER NO., IF ANY:					
CONSIGNEE:				; ;	
CONSIGNOR:					
BRIEF DESCRIPTION OF DEFICIENCIES:				•	
					-
CORRECTIVE ACTION TAKEN OR RECOMMEN	NDED:				
•					
			_		
	SIGNED:				•

#### HAZARDOUS MATERIALS HANDLING REPORT

BERTH:	TERMINAL:	SHIP:	DAT	E:
HAZARDOUS MA	rerial(s) Handled:			
	CEDURE:			
			·	
CONDITION OF	CARGO:			
ROUTINE PRECA	AUTIONS TAKEN:	·	•	. 5
:				
·				
PERSONAL PROT	ECTIVE EQUIPMENT PROVIDED	•		
		:		
DID THE MEN W	YEAR THE GEAR PROVIDED?	ZES NO		
WERE THE MEN	GIVEN THE HAZARDOUS MATER	ALS NOTIFICATION	SHEETS?	YES NO
NUMBER OF MEN	EXPOSED:			_
HOURS OF EXPO	SURE:			
EMERGENCY PRO	CEDURE NECESSARY? YES	NO		
IF SO, WHAT W	ERE THEY?			
			<u> </u>	
MISCELLANEOUS	INFORMATION:			
			· .	
·				

### HAZARDOUS MATERIAL INFORMATION SHEET

DATE NOTIFIED: 3-10-78
date to be handled: 3-15-78
DATE I.S. SENT: 3-12-78
HAZARDOUS MATERIAL: PATHALIC AN HYDRIDE (SOLID)
SYNONYMS: PHTHAL ANDIONE
SINONINS. THIRHKANDIONE
HAZARDOUS ANALYSIS:
TOXICITY: SLIGHT -> MODERATE > MATERIAL IS A SKIN
IRRATANT. It can be harmful when Ingestedor Inhalen
FIRE/EXPLOSION HAZARD: (D) Slight fire hAZARD, CAN react with
Oxidizing materials @ MODERATE EXPLOSION HAZARD WHEN
dusts are exposed to flames (3) FIGHT FIRES WITH
INATER DRY CHEMICAL, OR COZ
COUNTER MEASURES: /
PROTECTIVE CLOTHING/EQUIPMENT: 1 rubber Aprons (2) Goggles De
face shields (3) rubber gloves (1) 87/0 DUST MASKS
THE SHEWS (S) I REDUCE OF TOUS (T) & 110 17431 14113KS
ODERATION PROCEDURES. A C. Labora Date O. O. DO-T DATE CO
OPERATION PROCEDURES: DECLE AND OUR BEST DEFENSE
AGAINST Exposing employees is good packagingo CAUTION THE
MEN TO HANDLE WITH CARE alf machines are used be careful
EMERGENCY PROCEDURES: FOR LARGE SPILLS OR LEAKS REMOVE THE
MEN FROM the ARRA AND CONTACT the SAFety Department

#### CHECKLIST FOR THE SAFE HANDLING OF HAZARDOUS MATERIALS

- 1. PLAN AHEAD. If possible, before the cargo arrives, you should learn as much as you can about the hazardous commodity you will be handling.
- 2. LEGAL REQUIREMENTS. You must know the State, Federal and Coast Guard standards governing the material.
- 3. INFORM THE MEN. It is required by law that, all supervisors, foremen, and workers be informed that they are handling hazardous materials. Have them read the labels.
- 4. ROUTINE SAFETY PRECAUTIONS. Be sure that the proper safety precautions are taken. Have the men been provided with necessary personal protective devices and are they wearing them? Caution the men as necessary.
- 5. EMERGENCIES. Whenever possible, the steps necessary to properly handle any spills or leaks must be ascertained prior to handling the commodity. If not possible, whenever a spill or leak is discovered, immediately remove the men from the area until the proper precautions can be learned and taken.

#### WHERE TO FIND THIS IMPORTANT INFORMATION (Order of Priority)

- 1. CONTACT: DAVID HOPPES MARINE TERMINALS SAFETY DIRECTOR
- 2. CONTACT: PACIFIC MARITIME ASSOCIATION TRAINING AND ACCIDENT PREVENTION DEPARTMENT -

DAY: 835-0171

NIGHT: HANK FRISCH - AREA SUPERVISOR OR CALL ANSWERING SERVICE 830-1600 Code 901

3. FOR EMERGENCIES (24 hours/day)
CONTACT: CHEMTREC - (800) 424-9300

# Section 6 PROPERTY STATUS INVENTORY

The Harbor Department acts as the landlord for all municipally owned lands located within the Harbor District. These Port lands are made available by leases, assignments, etc. to various tenants who in turn provide facilities and services for the shipping industry. This "landlord" role allows for flexible siting of Port tenants depending on their land and berth use requirements. It also enables the Port to determine the term and type of lease and the liability requirements of its tenants. Since these terms and conditions are relevant to the management of hazardous uses in the Port, an inventory has been compiled of the lease status of these tenants which handle bulk quantities of hazardous materials in the Port (Table 10).

The Port also issues permits for the installation and use of pipelines within its jurisdiction. Since in many cases these pipelines carry petroleum products, an inventory of major pipeline permits and a brief description of their location and other characteristics has been compiled (Table 11). Reference to applicable Harbor Department documents has been included to provide further details.

<b>****</b>	·	<u> </u>	<u> </u>
RENTER (REMARKS)	LOCATION & BERTHS	TERM & TYPE EXPIRATION	INSURANCE & BOND
THUMS (Oil Production)	16,927 Sq. ft. at 880 Windham Avenue.	3 yrs. 2 months Lease Expires April 1, 1980 w/4 five year lease options	
THUMS (Oil Production)	37,976 sq. ft. land area at 1205 W Broadway (oil delivery site).	Lease agreement with options. Expires on December 31, 1980, with option to renew.	\$500,000/\$1,000,000 BI, \$200,000 PD or \$1,000,000 CSL. No Bond.
THUMS (Oil Production)	17,753 sq. ft. at 240 S. Harbor Scenic Dr. for electrical substation.	10 year lease, option to renew for 4 additional terms of 5 years each, plus a 5th term of 4 yrs. and 1 month,	\$500,000/\$1,000,000 Bodily injury, \$2,000,000 Property damage. No Bond
THUMS (011 Production)	Pier J Drill sites, J1 to J6 580,372.77 sq. ft.	10 year lease. Expires on June 30, 1982, w/options to renew.	\$1,000,000 CSL No Bond
THUMS (0il Production)	Marine Terminal at 1280 Pier G Avenue (Berth 216) 138,488 sq. ft. of water area.	10 year lease with options to renew. Expires Feb. 29, 1981	\$1,000,000 CSL No Bond

RENTER (REMARKS)	LOCATION & BERTHS	TERM & TYPE EXPIRATION	INSURANCE & BOND
THUMS (Oil Production)	36,544 Sq. ft. building and adjacent park-ing area at 840 Van Camp St. 78,998 sq. ft. total area.	27 year lease with options. Expires March 31, 1986.	\$500,000/\$1,000,000 BI, \$200,000 PD or \$1,000,000 CSL - 100% Fire Policy by City. No Bond.
FOREST TERMINALS CORP. (Lumber Products)	at 911 Pier A	Assignment with option for 5 additional years. Expires March 31, 1980.	guaranteed by Crown
CORPORATION	52, 53, 54 and adjacent water.	, -	\$2,000,000 CSL. No Bond
	(Bldg. HD-230) 109,853 sq. ft.	5 year lease. Expires March 31, 1983 or upon termination of PAA.	\$2,000,000 CSL. No Bond.

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RENTER (REMARKS)	LOCATION & BERTHS	TERM & TYPE EXPIRATION	INSURANCE & BOND
THUMS (Oil Production)	3,938 sq. ft. water area and 76,601 sq. ft. land area for parking and boat landing at 1400 S. Harbor Scenic Drive.	4 years, 4 months with options. Expires on June 30, 1982.	\$500,000/\$1,000,000 BI and \$250,000 PD. No Bond.
TEXACO, INC. (Marine Terminal, Petroleum)	Berths 84-87 Channel 2, Parcel I-181,784 sq. ft., Parcel II, 242,622 sq. ft., Parcel III, 24,928 sq. ft., Parcel IV 12,005 sq. ft.		\$500,000/\$1,000,000 BI, \$500,000 PD, 9% Average clause - Fire No Bond.
KOPPEL (Bulk Grain Terminal)	1	15 year lease. Expires August 31, 1993.	\$5,000,000/\$10,000,000 BI, \$1,000,000 PD or \$10,000,000 CSL & Fire \$14,000,000. \$50,000 Bond
EXXON (Petroleum)		Lease and license agreement. Expires June 30, 2010	No Insurance. No Bond.

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RENTER (REMARKS)	LOCATION & BERTHS	TERM & TYPE EXPIRATION	INSURANCE & BOND
POWERINE OIL CO. (Petroleum Stor- age)	43,500 sq. ft. water and 288,409 sq. ft. land at 1405 W. 7th Street. Berths 72, 73 & 74.	5 year lease with 2 five year options. Expires April 30,1980	\$500,000 combined single limit and fire. No Bond.
NATIONAL MOLASSES (Molasses Termina	at 984 Pier A	20 year lease and license ageement. Expires August 31, 1992.	\$1,500,000 CSL with \$25,000 deductible and 90% average clause fire. No Bond
CANAL INDUSTRIAL PARK, INC. (Automobile Terminal)	98,150 sq. ft. of land at 387 Harbor Scenic Way and 13,600 sq. ft. at 1539 Harbor Scenic Way.	10 year lease. Expires November 30, 1982.	\$500,000/\$1,000,000 Bodily injury, \$100,000 Property damage. No Bond.
BAKER COMMODITIES INC. (Animal Fats)		6-year lease. Expires January 1, 1981.	\$1,000,000 CSL and Fire. No Bond

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RENTER (REMARKS)	LOCATION & BERTHS	TERM & TYPE EXPIRATION	INSURANCE & BOND
CHEVRON, USA (Petroleum Coke Storage)	Berth 96. 197,820 Sq. ft. at 1140 Pier G Avenue, Right of first refu- sal on adjoin- ing 85,490 sq. ft. (Parcel II)	10 year lease with 10 year option. Option excerised 10-26-78. Expires May 4, 1979.	\$500,000/\$1,000,000 BI, \$500,000 PD. No Bond.
COOPER STEVEDOR- ING CO., INC. (General Cargo Handling)	and 201.	2 year Preferential Assignment Agreement. Expires October 31, 1980:	\$2,000,000 CSL & \$1,000,000 FLL. No Bond
CRESCENT TERMINAL (Steel Handling)		7 year Preferential Assignment Agreement. Expires June 30, 1980	\$500,000/\$1,000,000 Bodily Injury, \$100,000 Property damage, \$1,000,000 fire Legal Liability. No Bond
FREMONT FOREST PRODUCTS (Lumber Products)	277,700 sq. ft. and building, HD-246 at 1993 Edison Way and Berth 84 back area.	90-day Revocable Permit. Expires on revocation.	\$500,000/\$500,000 BI; \$25,000 FLL No Bond.

# PROPERTY STATUS INVENTORY (CON'T)

<u> </u>	<del> </del>	<u> </u>	<u> </u>
RENTER (REMARKS)	LOCATION & BERTHS	TERM & TYPE EXPIRATION	INSURANCE & BOND
INTERNATIONAL TRANSPORTATION SERVICE (Cargo Container Terminal)	1281 Pier J Ave. Water 402,500 sq. ft. (3 parcels) and Wharf: 176,500 sq. ft. (3 parcels). Berths 232-234	5 year Preferential Assignment Agreement with options. Expires 5-31-82 with 2 5 year options remaining.	\$1,000,000 CSL and \$1,000,000 FLL. No Bond
LONG BEACH TERMINAL CO. (Petroleum Storage)	234,799 sq. ft. land area at 1920 Lugger Way Storage shed at Berth 83 and pipeline right of way to Berth 83.	option for 3 addi- tional 10 year terms. Expires 9-30-87 with option on 180 days' notice or 4-3-87.	\$500,000/\$1,000,000 BI; \$200,00 PD, Fire 90%. \$100,000 Bond.
MADISON INTERSEAS INC. (General Cargo Handling)	Pier F, Berths 203-205 - 642,238 sq. ft. of open paved area and adjacent water area and 180,000 sq ft. of transit shed.	10 year marine lease. Expires 12-31-88	\$300,000 CSL and \$500,000 FLL. \$275,000 Bond.
METROPOLITAN STEVEDORE CO. (Cargo Hanlding Petroleum Coke)	Pier G, Berths 212-215. 705,737 sq. ft. Parcels I-V	5 year Preferential Assignment Agreement. Expires May 31, 1981 with holdover	\$2,000,000 CSL and \$500,000 FLL. No Bond.
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RENTER (REMARKS)	LOCATION & BERTHS	TERM & TYPE EXPIRATION	INSURANCE & BOND
SEALAND SER. (Cargo Container Terminal)	1,592,265 sq. ft. (PCL IA at Berths 227- 228, Pier G Including adjacent water area. Option on Parcels IB and IC (1,287,508 sq. ft.) on 1,095 days notice not before 7-1-83.	25 year Preferential Assignment Agreement. with options to renew Expires 1-15-98	\$500,000/\$1,000,000 BI, 250,000 PD, 2,000,000 FLL and \$500,000/\$1,000,000 PD and 200,000 PD Auto. Bond guaranteed by McLean Industries.
SEALAND SER. (Cargo Contianer Terminal)	Cranes No. 450 and 451, Berth 230.	Preferential Assignment. Expires 12-31-98 with option for 5 more years.	\$500,000/\$1,000,000 BI; 250,000 PD or \$1,000,000 comb. single limit and \$1,500,000 FLL. No Bond
SEALAND SER. (Cargo Container Terminal)		20 year lease with 2 5 year options. Expires 3-31-91 with options.	90% fire, \$1,000,000 FLL, \$500,000/ \$1,000,000 BI, \$50,000 PD. No Bond.
UNITED STATES LINES (Cargo Container Terminal)	Marine Con- tainer Terminal and 22.23 acres (968,409 sq. ft.) Berth 230.	5 year Preferential Assignment Agreement. Expires 12-31-78.	\$500,000/\$1,000,000 BI, \$250,000 PD or \$1,000,000 CSL and \$1,000,000 FLL. and Auto-\$250,000 Liability and \$200,000_Bond.

RENTER (REMARKS)	LOCATION & BERTHS	TERM & TYPE EXPIRATION	INSURANCE & BOND
ATLANTIC RICHFIELD COMPANY (Petroleum Storage)	1300 W. 8th St. (Berth 78-80) 785,600 sq. ft., land area 90,459 sq. ft. water area.	40 year permit Expires 12-31-94	\$500,000/\$2,000,000 BI. \$2,000,000 P.D. No Bond.
ATLANTIC RICHFIELD COMPANY (Petroleum Coke Storage)	1155 Pier G. Avenue 81,520 sq. ft. 1and area Easement from wharf.	10 year lease with three 10 year options expires 12-31-79.	\$500,000/\$1,000,000 BI. \$500,000 P.D. No Bond
ATLANTIC RICHFIELD COMPANY (Petroleum, Marine Terminal)	300 Pier E Ave. 896,409 sq. ft. land area. Sufficient adjacent water area.	35 year lease. Expires 12-31-94	\$500,000/\$2,000,000 PL. \$2,000,000 P.D.
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	PIPELINE		
OPERATOR	PERMIT NUMBER	DESCRIPTION	DOCUMENT NUMBER
ATCHISON, TOPEKA & SANTA FE	•	21" storm drain 8th & pico.	HD-1059
ATLANTIC RICHFIELD COMPANY		R/W easement for 10" line on PDA. 14" & 24" lines to Pier E lease. Crude oil line #48-Parcel A to	HD-1454 HD-398
		Watson Refinery. 7th St. Across HEF area. 7th & Harbor Avenue, dated 6-18-56.	HD-518
BAXTER, J.H. & COMPANY	73–1	8" Sewer Line on 8th Street	
BUREAU OF FRANCHISES AND PUBLIC UTILITIES		Lomita Gasoline Company, LBOD, LACFCD, Mobil, Procter & Gamble, Union Oil.	
CANAL INDUSTRIAL PARK, INC.	75-2	Water & elec., Pier J.	
CHAMPLIN PETROLEUM COMPANY	70-4	West side of Pier E.	
COAST GUARD	74-3	4" sewer, Berth 16 to Pier B. Submarine cable from Pier J to breakwater light.	HD-1456
COOPER STEVEDORING CO., INC	73-3	2" phone duct, Pier F.	
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OPERATOR	PIPELINE PERMIT NUMBER	DESCRIPTION	DOCUMENT NUMBER
DEPARTMENT OF OIL PROPERTIES	68-2	Pier J Water injection lines.	
EDGINGTON (NEW EDGINGTON CORPORATION)	65–4	Oil facilities	
EXXON COMPANY, USA	69-3	El Embarcadero to 7th Street	
GENERAL TELEPHONE COMPANY	70-2	Pier A, Gerald Desmond Bridge	·
GULF OIL CORPORATION	65–3	10" oil from Edison West on 8th to U.P. Property.	
LOMITA GASOLINE COMPANY	66-7 66-11 66-12	(Assigned from Mobil) gas gathering system, oil facilities. Wet gas. 12" wet gas. Pico & El Embarcadero. 4" & 10" wet gas along Ocean. 12-18-61. 10" on Mitchel between Seaside & Santa Cruz. 2-27-61 8" Water St., NE of 3rd & Mitchell, 2-27-61. 3 to 16" near 9th and Harbor Ave. B of F - gas in Harbor Ave. & So. of 9th & Water St. Dedicated Streets).	HD-629 HD-312 HD-324
LONG BEACH OIL DEVELOPMENT COMPANY	66-5	Sup. 1-36. Pier G relocation.	

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	PIPELINE PERMIT NUMBER	DESCRIPTION	DOCUMENT NUMBER
LONG BEACH TERMINAL	•	From tank farm @ 1920 Lugger Way and Texaco @ Berth 83.	
LOS ANGELES COUNTY FLOOD CONTROL	·	B of F, Dedicated Streets, 9th to Channel #2.	
LOS ANGELES DEPT. OF WATER AND POWER	68-4	12-3/4" oil along 5th St. in N. Harbor District.	
MOBIL OIL CORPORATION	66-8	B of F for lines in dedicated streets in Harbor. Unit oper. Blks. IV 7 V, Seg.	
	67-3	II General Facilities Unit operator, water injection fac., Seg. II, Blks, IV & V Unit.	
	68-3 68-1	Oil lines between 8th & 9th Sts. West Coast Pipelines. Unit Oper. FB IV & V Ranger Zone	
		Unit, Wilmington Oil Field. 3" lines, So. of Seaside on Pier E for FBIV handling of Signal & Termo.	
PACIFIC LIGHTING SERVICE & SUPPLY COMPANY	69-2	10" gas from Lomita Plant to West City Limit.	
PACIFIC TOWBOAT & SALVAGE	75-1	Elec. conduit from Edison transformer to lease @ D35.	

OPERATOR	PIPELINE PERMIT NUMBER	DESCRIPTION	DOCUMENT NUMBER
PETROLANE-LOMITA GASOLINE COMPANY	65–2	Gas lines.	
POWERINE OIL COMPANY	67–1	Pier A to 7th Street oil. 6" 7 8" lines from 7th to 10th Streets.	HD-1136
PROCTER & GAMBLE		B of F water supply across 7th Street in dedicated street.	
QUEEN MARY DEPARTMENT	71-1	Memorandum Agreement, Pier J	HD-2124
SHELL OIL COMPANY	66–2	Thums Bdwy. Terminal to 9th Stree	·
SOUTHERN CALIFORNIA EDISON COMPANY	74-2 71-2	Sewer line to Terminal Island 4" conduit on Pier E.	
STANDARD GAS COMPANY	71-1	Z-1 No. 2 Tank from Carrack Avenue & 8th Street.	
STANDARD OIL COMPANY		Water source line, Ocean Blvd. Bridge	HD-1154
TEXACO, INC.	66–4	8" crude from Thums Bdwy. to West Line of City.	
		·	

OPERATOR	PIPELINE PERMIT NUMBER	DESCRIPTION	DOCUMENT NUMBER
THE TEXAS COMPANY	•	6" oil at Seaside Boulevard dated 2-6-58.	
THUMS LONG BEACH COMPANY	65-1	24" oil & phone from J6 to Broadway & Mitchell Pier J to oil islands Pier J (Sup. 1-16) Submarine cable & lines to offshore islands (1966) Cathodic protection system for pipelines & submarine cables (1966) Temporary lines on Pier J	HD-1247 HD-1962 HD-1356
UNION OIL COMPANY OF CA	66-3	10" oil from Thums Bdwy. Term. to 9th & Anaheim. B of F pipeline attached to Anaheim Bridge. (1952)	·
UNION PACIFIC		6" crude oil on Terminal Island Permit to City for Waste Disposal Line	HD-536 HD-845

# Section 7 INTER-AGENCY COORDINATION

The management of risks, public safety, health and welfare, and emergencies has been the pursuit of various levels of government in response to the growing and changing needs as reflected in legislative mandates. Numerous federal, state, regional and City agencies maintain authority and responsibilities for management of specific types of risks affecting the Port. Among federal agencies exercising risk management authority on particular Port developments and operations are the Environmental Protection Agency (EPA), Corps of Engineers, The Maritime Administration, Fish and Wildlife Service, Bureau of Land Management, U.S. Customs Service, Food and Drug Administration, The Federal Aviation Administration (FAA), the Federal Commerce Commission (FCC), Coast Guard, and the Federal Energy Administration (FEA). The Coast Guard and the Army Corps of Engineers are among the federal agencies charged with domestic emergency response authority which have developed and maintained emergency contingency plans for military actions, flood, oil spills, vessel collisions, nuclear disaster, earthquake and other major naturally and artificially caused emergencies.

Among state agencies exercising risk management authority on particular Port developments and operations are the Coastal Commission, Energy Resources Conservation and Development Commission, Water Resources Control Board, Air Resources Board, Department of Fish and Game, Department of Navigation and Ocean Development, Division of Mines and Geology, Division of Oil and Gas, State Lands Commission, Division of Industrial Safety, Governor's Office of Planning and Research, Public Utilities Commis-The State Office of Emergency Preparedness, formerly called the California Disaster Office has developed and maintained an "Emergency Resources Management Plan" for civil defense in the event of attack. The Office of the Governor in 1974 certified the "State Oil Spill Contingency Plan" which was to be followed up with a separate hazardous materials contingency plan. Department of Fish and Game has prepared the "Oil and Hazardous Materials Contingency Plan" of 1974 with the aim of protecting living resources from oil and hazardous material impacts.

On a regional level, agencies such as the Southern California Air Quality Management District (SCAQMD), Regional Water Quality Control Board, Los Angeles County Flood Control District, County Road Department, County Department of Facilities, County Engineer, and County Department of Sanitation exercise some risk management authority over particular Port-related facilities and operations. The SCAQMD reviews permits for conformance with air quality rules and regulations. They have also established a multi-episode alert program whereby particular industries, businesses, and organizations are required to put into effect plans for reducing and eliminating levels of air pollution emission by cutbacks or suspensions of operations,

car pooling, and/or other specified means. Los Angeles County is actively pursuing the development of an oil spill contingency plan and coastal energy plan under the Coastal Energy Imapet Program. Los Angeles County and cities within its jurisdiction have been required to prepare emergency operation plans which derive their authorities from Public Law 81-920, as amended, California Emergency Services Act, California Mutual Aid Agreement, and California Emergency Resources Management Plan. County emergency operations are governed by the County Disaster and Civil Defense Ordinance, County Charter, County Administrative Code, and Orders and Administrative instructions of the Board of Supervisors.

#### City Risk Management Authority

The City of Long Beach has pursued risk management activities and plans as required by state law and mandated by the City Charter and the Municipal Code. The following text discusses some of the more significant activities and plans of City agencies in this regard.

#### Public Safety Element

The City Council and the City Planning Commission in 1975 adopted the Public Safety Element as part of the Long Beach General Plan as mandated by California Government Code Section 65302.1. This document identified and discussed significant public safety issues relevant to the General Plan including fire protection, geologic hazards, crime prevention, utility related hazards, industrial and transportation hazards, and disaster operations. The intent of this discussion was to incorporate public safety considerations into the overall planning process, to suggest methods for maximizing public safety, to recommend means and measures to reduce probabilities of loss resulting from various hazards, to increase the sense of security and well-being of citizens through public information, and to assist public safety officials.

Management, development, protection and remedial action goals are enumerated in the document and it is pointed out that these have been formulated to be accessible to alteration, update, deletion, or addition in response to changing circumstances within the City. Risk management is defined in terms of division of responsibility, functional definitions, and a survey of acceptable and unacceptable risks.

Public safety responsibilities are subdivided into four organizational groups as follows:

- 1. Planning and preventive groups.
- Action-oriented groups (i.e., handling the immediate crisis).

- 3. Resource groups (i.e., assisting immediate crisis).
- 4. Recovery groups (i.e., administrative assistance with grants, aid, programs, etc).

Risk management activities in the City are defined in the document as encompassing a set of eight functions which expand upon the original application, i.e., the evaluation of insurance needs and programs. These functions are as follows:

- o Identifying hazards with a significant potential to create large financial losses;
- o Prioritizing hazards as to potential loss, extent of risk, and remedial costs to reduce the hazards;
- o Estimating economic effects of predictable losses;
- o Establishing insurance needs in view of probable loss;
- o Designing insurance coverage that meets the particular needs of the City;
- o Continual risk re-evaluation based upon new or changing exposures to employees or the general public;
- o Coordinating safety activities with safety personnel working in the private sector (i.e., work closely with harbor and airport safety experts to assure safe operations on the ground as well as reducing potential risk to nearby residents);
- o Establishing mechanisms to accumulate funds to pay losses.

In order to provide a qualitative evaluation at the policy state of acceptable and unacceptable risks, the City prepared a list of thirty-two potential risks and surveyed the opinions of 48 separate City departments and private organizations with some expertise and association in matters of public safety. The result is not a factual analysis of the level of risk, but an authoritative subjective evaluation of the significance of potential risks to public safety.

The Public Safety Element presents immediate action and long term recommendations for improvement of risk management and public safety. The immediate action recommendations include the following: bringing old buildings up to code, attaining a Class I fire rating, relocating fire stations for efficiency, undergrounding of power lines and transformers, equipping freeways with call boxes, establishing an emergency telephone system, and establishing a risk management program. Long term recommendations include the following: replacement of unsafe structures with new developments, planning for lower density, providing safe and adequate access, attracting less

hazardous industries, enforcement of seismic codes, providing for senior citizens and handicapped, increasing park surveillance, improving street lighting, police participation in the planning process, and isolating incompatible land uses.

#### Long Beach Emergency Plan

The City Council adopted the "Emergency Plan of the City of Long Beach" by Resolution C-21063 effective December 10, 1971. This plan was prepared and is being carried out pursuant to the Long Beach Municipal Code, Article II, Chapter 3, Part 5, as amended.

The Emergency Plan prescribes the organization and operations of the Long Beach Emergency Organization. The Plan specifies the duties and responsibilities of the departments and employees of the City government. In addition, it complements the Los Angeles County Emergency Operations Plan, and it derives authority from various federal, state, and County emergency legislation on which the Municipal Code mandate has been based. The Emergency Organization may be activated fully or partially by proclamation of the President of the United States, the Governor of California, the City Manager, or their authorized representatives. Command of the Organization is vested in the City Manager or his official representative.

The general policy assumption of the Emergency Plan is that emergency or disaster response capabilities must be largely automatic, requiring a dynamic state of readiness. Therefore, City resources shall be applied in the most efficient manner possible to save lives and property, and to preserve the constitutional form of government. Specific policies are promulgated with respect to coordination of services by the Police Department, responsibility for preparation and operations, the role of City employees, the identification of key personnel and their duties, and the roles of volunteers and other persons impressed into service during an emergency.

Although the aim of the overall Plan is to provide for a state of readiness for any major emergency, particular annexes of the plan respond to given types of hazards. Annex C addresses the management of emergency response in the school system under potential threats from fire, explosion, earthquake, tsunami, bomb threat, falling aircraft, panic, or nuclear attack.

Annex D addresses the alternative locations of the Emergency Operating Center in cases of natural disaster or radioactive fallout. Annex G addresses radiological defense. Annex I addresses the management of emerengency response from blast, heat, and radiation from nuclear attack. Annex J addresses emergency response services in case of fire, explosion and panic.

Annex L address the economic stabilization and management of service and material resource during an emergency. Annex O

addresses law enforcement and traffic control services during a calamity of disaster proportions. Annex P addresses public works and engineering services to maintain lifelines for gas, water, electricity, food, petroleum service, transportation, supply, communication, street and road systems, sanitation and building serviceability. Annex S addresses building and safety services in inspecting structures for safety and habitability under conditions of widespread damage and destruction due to natural or war caused disasters. Annex T addresses oil spill contingency operations in the City at large. Annex V addresses civil disturbances which are either spontaneous, deliberate or both. Annex W addresses war emergency operations.

The role of the Harbor Department is discussed as a unique entity of the Emergency Organization. In the event of war, the mission assigned to the Harbor Department by the federal government preempts any assignment made by the City. The Harbor Department, under these circumstances, will be controlled and directed by the United States Maritime Administration of the Department of Commerce in so far as maritime operations are concerned, although the Port is charged with its own civil defense protective actions and providing assistance to the City in its civil defense activities as much as possible.

The Port is charged with furnishing management and technical staffs for fallout shelters in its facilities, providing radio links with the City Emergency Operations Center (EOC) and mobile radios for emergency communication, and management of the operational radiological reporting network within its jurisdiction. In the event of a natural disaster, the services of the Harbor Department are to be utilized as necessary to help meet the needs of the City.

#### Risk Management Activities of City Agencies

In addition to the City-wide risk management plans cited above, particular departments and agencies of the City are charged with administration and enforcement of requirements for hazard prevention and emergency response. The Planning and Building Service is responsible for land use planning, zoning administration, environmental analysis, subdivisions, planning, building and safety permit review and approvals, and structural inspections. The Engineering Department reviews projects for structural and traffic safety, water quality, and sewer, storm drain and other substructural adequacy. The Public Service Department plays an active role in maintaining City services such as roadways, lighting, public structures, equipment and properties, and in managing waste disposal services for the City.

The Health Department provides services to protect the health and welfare of the citizens of Long Beach, including disease control, animal control, mosquito abatement, and health services for the disadvantaged. The Water Department manages water distribution and is concerned with maintaining potable water quality. The Aeronautics Department manages airport and aircraft operations in

the City and in cooperation with the FAA coordinates the flight paths, takeoffs, and landings of aircraft utilizing City facilities. The Department of Oil Properties manages oil spill containment, subsidence, and geological risks relative to existing, new and expanded oil and gas facilities in the City, and reviews and City permits for projects in the Alquist-Priolo Seismic Hazard Zone.

Both the Police Department and the Fire Department play major roles in enforcement of public safety measures and emergency response operations. The Police Department has expanded its activities in recent years with respect to crimes from apprehension, suppression, rehabilitation, and security to more active involvement with the application of advanced planning techniques to crime prevention. The Crime Prevention Bureau of the Police Department was estalished for this purpose.

The services of the Fire Department encompass fire fighting and prevention within the City both on land and in local coastal waters. The Bureau of Fire Prevention of the Fire Department inspects sites, buildings and other facilities throughout the City to determine whether hazards exist, whether codes and regulations are being conformed to, and it initiates enforcement where necessary.

The Fire Department maintains an "Emergency Operating Procedure" which addressed activation, authority, organization, duties and responsibilities, civil disturbance guidelines, and resource management in case of emergencies. Management authority and operations cover risks from hazardous chemicals, oil spills, explosions and radioactive materials, although some responsibilities are delegated to other agencies and private organizations with special capabilities when the need arises. The City Fire Department is party to Mutual Aid agreements with other jurisdictions in the eventuality that an emergency becomes more than one jurisdiction is capable of handling. Paramedic services constitute another major capability of the Fire Department for responding to accidents and injuries.

# San Pedro Bay Navigational Operating Procedures/Regulations and Practices

The Ports of Long Beach and Los Angeles control their operations, pursuant to State Charter which includes pilotage, wharfage, dockage, and other rules and regulations, through published tariffs. These tariffs cover the basic operational process characteristic of each Port. The pilotage service currently available within the Port of Long Beach is in compliance with all mandates set forth by these tariffs and the United States Coast Guard.

#### Pilot Services Offered on San Pedro Bay:

It is significant to note that approximately 95 percent of all major ship traffic is handled by three pilot organizations servicing San Pedro Bay:

- 1. U.S. Navy Pilots hired by the federal government for handling naval vessels, exclusively.
- 2. Los Angeles Harbor Pilots Civil servants hired by the Port of Los Angeles to handle vessels in that Port.
- 3. Long Beach Harbor Pilots Provided by an independent pilotage contractor per terms of the Long Beach Harbor tariff to handle vessels in the Port.

All of the pilots operating in San Pedro Bay are licensed by the United States Coast Guard and in the event of a mishap, are subject to investigation proceedings by the Coast Guard.

#### Port Safety Council

When problems of marine-related safety needed to be resolved, a body, consisting of representatives of both industry and government, is convened to eliminate problems. Although currently inactive, the Port Safety Council met and was responsible for initiating use of a closed-circuit teletype system, discouraging the building of yacht marinas in congested channel areas, and establishing procedures for alerting mariners to hazardous conditions in both harbors.

#### Piloting Requirements of the Port of Long Beach

In 1851 the Congress of the United States passed its first law establishing the requirements for federally licensed pilots. At the present time oil vessels on coastwise voyages and all U. S. Registered vessels must have a federally licensed pilot onboard while navigating in inland water and harbors of the United States.

As a matter of practice, due to the risk involved, all seagoing vessels, foreign and coastwise have licensed pilots onboard. Most ship's masters use the services of Port-provided contract pilots, however some of the masters of coastwise vessels, prefer to do their own piloting and have the proper endorsement on their master's license.

The Long Beach Harbor Department maintains a force of municipal pilots, pursuant to a contract with an independent pilotage contractor, to perform the service of piloting vessels within, into and out of the Port of Long Beach. Any vessel entering, leaving or shifting within the Port may request the services of and be piloted by a municipal pilot.

That force, the Jacobsen Pilot Service has been the contract pilot for he Port of Long Beach since 1923. The Harbor Department recently renewed Jacobsen's contract for pilotage services until 1987.

The contract with Jacobsen requires that all pilotage shall be performed in accordance with all applicable rules of navigation and regulations imposed by the United States Government, or any governmental agencies having jurisdiction over Port navigation and safety. Jacobsen is required to comply with all applicable laws, ordinances, and regulations enacted by federal, state, city or other governmental agencies.

The two agencies that have authority in the Port with regard to navigation are the Harbor Department and the United States Coast Guard (USCG). The USCG Captain of the Port has the ultimate authority regarding matters of navigational and operational safety. By advice and information from vessel agents, marine exchange, marine terminals and the pilot station, the Operations Division of the Harbor Department is kept aware of vessel movements, arrivals and departures and any unusual operational problems regarding vessel and cargo movements. In matters involving Port safety considerations, under the authority of the General Manager of the Harbor Department, the Operations Division may intercede and confer with vessel officers, terminal operators, and/or shipping agents as to the procedures to be followed during the vessel's visit to the Port.

The Port Pilot must adhere to all tariff items concerning navigational safety outlined in the Port of Long Beach Tariff No. 3. This tariff includes such items as the duties and responsibilities of the Pilot and the ship's master, the types of vessels that are subject to pilotage, the basis for computing pilotage charges, the regulations regarding the movement of ships in the Main Channel and turning basins, the handling of mooring lines, and the speed of vessels navigating within Port jurisdiction.

In addition to the Port tariff, all vessels must follow the inland and pilot Rules of the Road established by law, and administered by the United States Coast Guard, These are specifically spelled out in the United States Coast Guard, Navigation Rules, International-Inland (CG-169, May 1, 1977). All Jacobsen pilots hold a First Class Unlimited Pilots License issued by the United States Coast Guard, and

Port of Long Beach Pilots are assigned to vessel movements in accord with their proven proficency.

Vessel movements in the Harbor, especially those of the larger tanker vessels, are well programmed before any movement takes place. In the case of the larger tankers, a notice of arrival is received days ahead of the actual arrival. Vessel size, i.e., length, draft, beam, tonnage, type of cargo, and other pertinent factors are researched, and pilotage preparation initiated. Berth considerations and limitations are evaluated, as well as tidal conditions and movements of other vessels which could effect the handling of the large tanker; this yields a coordinated safe mechanism for moving vessels.

#### Communications

A prime factor of any successful traffic system is communications. VHF radio was introduced in this area in 1951. A brief summary of radio communications presently in service in San Pedro Bay is as follows:

#### Marine Exchange

Channel 16 156.8 MHZ, Calling and Safety Frequency
Channel 12 156.6 MHZ, Long Beach Pilot Working Frequency
Channel 14 156.7 MHZ, Los Angeles Pilot Working Frequency
Channel 9 156.45 MHZ, Business Operation Frequency.

They can also receive, but not transmit, on Channel 13, 156.65 MHZ, ship to ship frequency. Channel 16 is guarded 24 hours per day, even when working on another frequency.

#### Los Angeles Pilot Station guards continuously:

Channel 16 156.8 MHZ, Calling and Safety Frequency

Channel 14 156.7 MHZ, Los Angeles Pilot Working Frequency

#### Long Beach Pilot Station guards continuously:

Channel 16 156.8 MHZ, Calling and Safety Frequency

Channel 12 156.6 MHZ, Long Beach Pilot Working Frequency

Channel 74 156.725 MHZ, Long Beach Pilot Working Frequency

Pilots of both ports carry "handi-talkies" and guard Channel 65, 156.275 MHZ. A second frequency enables them to communicate with their respective pilot station. They also have the capability of

transmitting and sending over Channel 13, which is the designed ship-to-ship channel. The Port of Long Beach maintains a radio system, KMB 593, for communications between tugs, Harbor Security and Harbor Maintenance vehicles, etc...

The U.S. Navy currently has VHF capability and can communicate on the local working channels. Additionally, the Long Beach pilot service has established a secondary radio antenna on top of San Pedro Hill which enables the Pilot station to communicate with arriving vessels up to 90 miles north and south of the Port of Long Beach. This system affords a means of alerting the ship master on traffic patterns, rendevous point with the pilot, and other pertinent information relevant to ship arrival.

All local tug boats have communication capabilities on Channel 65; thus, all pilots and tugs are linked by a common frequency.

#### Closed Circuit Teletype System

This system was initiated in 1968 through the Port Safety Council and effectively links the key operational centers in San Pedro Bay, which are:

- a. United States Coast Guard Captain of the Port
- b. U.S. Navy Control
- c. Marine Exchange
- d. Los Angeles Pilot Station
- e. Long Beach Pilot Station/Jacobsen Pilot Service, Inc.
- f. Los Angeles Port Wardens

The purposes of the system are:

- a. To exchange, between the subscribers, daily ships' schedules within, to and from the Los Angeles/
  Long Beach harbors in order to promote the safe, orderly flow of ship traffic in the harbors.
- b. To handle urgent and emergency messages between the various subscribers.
- c. To provide a rapid means of communication by responsible authorities for the coordination and control of ship movements during emergencies.

This system has proven to be extremely effective and has become an instantaneous Notice to Mariners within the Harbor.

#### Hot Line

The Long Beach pilot station is linked to the Harbor Security office by a "Hot Line", or no dial telephone.

#### Traffic Control and Routing Schemes:

Traffic flow patterns represent one of the most effective means of achieving ship safety. Several traffic schemes are presently in effect in San Pedro Bay.

- a. Vessels approaching or departing the ports are advised by National Oceanic and Atmospheric Administration (NOAA) Coastal and Harbor charts that vessels entering Los Angeles or Long Beach Main Channel should pass eastward of respective "sea buoys" and vessels departing should pass westward.
- b. The Port of Long Beach Tariff No. 3 establishes a restricted area in the most critical portion of the Long Beach Main Channel. Traffic flow is regulated in this area by two mid-channel buoys and all vessels must govern their movements in accordance with prescribed regulations.
- c. All vessel traffic entering and exiting San Pedro Bay are directed to utilize specifically designated shipping lanes. These lanes (one mile in width) are designated both north and southbound and have a two-mile separation zone.
- d. Areas outside the Middle and Long Beach breakwaters are designated for the boarding of port pilots.
- e. Turning Basin Buoys are properly placed within the Port of Long Beach.
- f. United States Coast Guard Control of Special Vessels Pursuant to 33 CFR 160, the United States Coast Guard maintains the position of exercising complete control over special vessels, e.g., very large crude carriers and liquefied gas carriers and Port operations when deemed necessary by the Captain of the Port.

#### Vessel Speed

Speed of vessels is regulated by local tariff provisions. The Port of Long Beach speed regulations are as follows:

a. The Port of Long Beach Tariff No. 3 provides that: It shall be unlawful for any person to navigate any vessel within any portion of the Port of Long Beach inside the Middle and Long Beach Breakwaters at a speed greater than six (6) nautical miles per hour, subject to exceptions 1 and 2.

Exception 1. Vessels drawing more than five (5) feet of water may navigate at a speed not greater than ten (10) nautical miles per hour in that portion of the Outer Harbor not included in the Harbor restricted area as defined in item 1285.

Exception 2. Vessels drawing less than five (5) feet of water may navigate at a speed not greater than fifteen (15) nautical miles per hour in that portion of Outer Harbor not included in the Harbor restricted area as defined in item 1285.

b. Notwithstanding any rule or regulation herein contained with respect to speed of vessels, it shall be unlawful for any person to operate any vessel in a reckless or negligent manner, or in any manner, so as to endanger any other vessel or mooring facility or the life, limb or property of any person.

#### Anchorage Procedures:

Anchorage procedures were implemented and initiated through the action of the Port Safety Council as a result of a longshoreman strike in 1971 which caused severe congestion for vessels at anchor in San Pedro Bay. Congested anchorage positions were drawn and charts issued to all interested parties.

Each commercial vessel that is scheduled to go to anchor is assigned a specific anchorage by the respective pilot station. The assigned anchorage is transmitted to all parties by the closed circuit teletype. In this way, all underway vessels are aware of locations of anchored vessels; this is especially important during periods of limited visibility. Those vessels not utilizing a pilot call the Jacobsen Pilot Service for vessel traffic and anchorage information.

#### Fog/Limited Visibility

Conditions/Shore Based Radar

Decca radar displays are located at pilot stations in Long Beach and Los Angeles. During periods of reduced visibility, vessel

movements are monitored and advisory information which includes traffic reports and ship heading checks, is relayed to pilots on vessels underway. The displays are manned by pilots during periods of reduced visibility.

The handling of vessels in reduced visibility condition is predicated upon several factors including:

- a. Regulation as prescribed by "Rules of the Road".
- b. Assessment of the ambient situation by the ship master and pilot.

Under existing laws and court precedence, any deviation from the traditional ship master/ship decision-making relationship would be inadvisable. It is the belief of the Harbor Department and its pilotage contractor that the persons most qualified to make proper decisions for a particular ship movement at a particular time are the ship master and the ship pilot. The mission of any shore advisory station should be to provide these people with the latest and most accurate supplementary information.

#### Local Emergency Rules and Regulations

There presently exist several rules and regulations covering specific emergency conditions, such as:

- a. Merchant Vessel Dispersal Plan, December 8, 1956.
- b. Permits for the handling of explosives as issued by the Long Beach Harbor Department, Fire Department, and the U.S. Coast Guard.
- c. The Port of Long Beach and Los Angeles emergency operating plans.
- d. City of Long Beach, Fire Department, "Tankship Cargo Lightering and Transfer to Other Vessel Operations in Long Beach City Limits" Regulations.

Proposed Pilotage Service Improvements

#### Communications

The need for an adequate and efficient means of communication to implement an effective traffic system is apparent, but the portion of the radio spectrum assigned by the Federal Communication Commission (FCC) to the marine industry is limited.

For comparative purposes, there are approximately 230,000 radio licenses issued by the FCC to vessels. Radio licenses issued for use by aircraft amount to approximately one half of that number. Yet, there are only 38 VHF frequencies available for marine use compared to a minimum of 360 talking channels in the 108 to 136 MHZ range available for the aircraft industry.

#### Ship Design

A great deal of study and attention must be directed toward ship and tug boat design to assure safe handling in restricted waters. Some examples of this are:

- a. Newly constructed vessels should have the bridge designed so that good visibility by pilots and ship handlers is assured.
- b. Sufficient cleats, bitts, and chocks provided on vessels to enable tugs to make a proper tie-up in order to get maximum maneuvering advantage.
- c. The extreme flare on some vessels limits the spotting of tugs in strategic positions. The need for twin screw tugs, or the utilization of kort nozzles, flanking rudders, etc., is becomeing more critical with the increasing size and configuration of modern vessels.
- d. Some foreign designed motor vessels have engines incapable of providing a dead slow speed. These are difficult to maneuver in the restricted waters of the harbor.

#### Navy Base Homeporting

#### Background

The military influence the Port of Long Beach has, had a major influence on Port growth and development since the early 1900's, when the Federal Government through the War Department and more specifically the Army Corps of Engineers started construction on the San Pedro breakwater, the Corps supported the deepening and reorientation of the Los Angeles, San Gabriel Rivers, turning basins and certain navigable channels leading to the Pacific Ocean.

In 1931, the City of Long Beach constructed landing facilities for use by the United States Navy between what was then Pier A and Pier B. These facilities included offices, waiting rooms, parking, recreation and eating facilities and service accommodations for Navy personnel. As a consequence, Long Beach became known as the home of the Pacific Fleet.

Between 1940 and 1949 the breakwater was extended easterly to provide greater protection for anchorage areas of the U.S. Navy and other proposed Port facilities.

Between the end of World War II and 1974, the Long Beach Navy Base located in the West Basin, or the area referred to in the Port Master Plan as the Federal Use District thrived. Federal policy in 1974 required the vacation of a substantial portion of Naval shore facilities in Long Beach under the "Shoreline Establishment Realignment Action of 1974". Over 16,000 personnel and dependents were transferred to other locations between 1973 and 1975, and the number of Navy ships in the Port was significantly reduced.

Currently, the Navy is proposing reestablishment of the Long Beach Naval Station as an active homeport to provide greater operational flexibility and responsiveness in meeting international crisis, domestic disasters and routime deployment situations as well as to acheive more cost effective utilization of existing shore/support facilities.

#### Assignment of Ships

The proposal to reestablish homeport in Long Beach will involve the initial reassignment of 12 ships in fiscal year 1980 (FY80), ll of which will be at Long Beach undergoing Regular Overhaul (ROH). The remaining ship, (AR8) is presently homeported in San Diego. The 12 ships are manned by approximately 4,934 personnel. During the period of FY80 through FY86, 15 newly constructed ships (LHA5, DD 963 Class and FFG 7 Class) manned

by approximately 3,986 personnel will be assigned for Long Beach homeporting.

#### Assignment of Personnel

In addition to the homeported ships' personnel, a number of support personnel will also be reassigned to Long Beach. The staffs of a Commander Naval Surface Group; Commander Amphibious Squadron Three; Commander Destroyer Squadron Seven; and Commander Destroyer Squadron Nine consisting of 113 personnel will be relocated from San Diego to Long Beach to exercise Command and Control over the newly homeported ships. The following shore activities will be increased as indicated to support the additional force levels; Naval Support Activity, 43 military and 3 civilian personnel; Naval Regional Medical Center, Long Beach, 49 military and 40 civilian personnel; Naval Supply Center Annex, Long Beach, 47 civilian personnel; and Naval Shipyard, Long Beach (Public Works Department) 27 civilian personnel.

The 89 medical personnel are required to support increased forc levels at either San Diego or Long Beach. A number of civilian personnel would be transferred from Naval Supply Center, San Diego, to the Annex at Long Beach.

#### Maintenance and Supply Support

The ships homeported at Long Beach would be provided Intermediate Level Maintenance and Supply Support as follows:

Intermediate Level Maintenance - The ships will be supported by one Repair Ship (AR) and the Commercial Industrial Service (CIS) program commencing in FY80. The CIS program is designed to contract intermediate level maintenance work to the private sector when it is beyond the capacity of the Intermediate Maintenance Activities (IMA's) (AR/AD or Fleet Maintenance Assistance Group) located in a particular port. Long Beach will be added to the CIS progra in FY80 and \$3 million is being included in the Commander in Chief Pacific Fleet (CINCPACFLT) FY80 budget submission to support the estimated requirement.

Five ships will be relocated to Long Beach in FY79 to commence regular overhaul. One of these ships is scheduled to complete overhaul in FY79. Subsequent to overhaul completion, and prior to FY80 commencement, this ship can be supported as the need arises by the IMA assets in San Diego for routine work, and Naval Shipyard Long Beach for emergency work. This plan will provide interim intermediate level maintenance support. The repair ship (AR 8) will be relocated to Long Beach during the first half of FY80 shwn sufficient ships are available to optimize use of this IMA asset. The exact date will be based on the regular overhaul completion rate of the ships being assigned to Long Beach as homeport.

Supply Support - Ships will be provided supply support (including general stores, repair parts and subsistence materials) by the Naval Supply Center, San Diego, via the Supply Center Annex at Long Beach. Essentially, this enhanced level of support will result from upgraded Automated Data Processing Equipment at Long Beach to provide Cathode Ray Tube Remote Terminal's with direct connections to the computer at Naval Supply Center, San Diego, and increased/enhanced truck delivery schedules between San Diego and the Long Beach A total of 47 additional civilian personnel and \$109,000 for Materials Handing Equipment and Automatic Data Processing Equipment will be provided at the Long Beach The SERVMART operations at Long Beach will be responsive support to the ships. Capabilities presently exist at Long Beach for providing full support in the areas of household goods and Navy Exchange/Commissary. Additionally, fuel support is available from San Pedro, and procurement support from the Navy Regional Procurement Office at Long Beach.

The basic supply function at Long Beach will be a receiving, assembling and delivery/shipping operation. No significant additional storage/warehouse requirements are envisioned.

The proposed homeporting project will not affect the efficiency of operations or the workload in the shipyard. The shipyard works on a ROH schedule established approximately three to four years in advance.

The functions of the Supply Center San Diego are static and would not change because of the homeported ships. For these reasons, the identification and analysis of significant impacts has been limited to the NAVSUPPACT.

Ordnance Handling - Coincident with the proposed homeporting of additional Navy combatent vessels at Long Beach is the necessity to handle or transfer various types of Naval ordnance. All ammunittion or explosive handling will be in accordance with the Navy and Department of Defense (DOD) standards.

These ammunition and explosives safety standards govern the separation of explosives facilities within the boundaries of Department of Defense establishments. They also govern the locations of these facilities with respect to inhabited buildings, public traffic routes, airfields (heliports/sea-dromes), etc., inside and outside the boundaries of DOD establishments.

In regard to the proposed action no sections of the surrounding civilian areas are affected by ordnance handling activities.

# Section 8 PERSONS AND ORGANIZATIONS CONSULTED

#### HARBOR DEPARTMENT

- Al Ancheta Operations

- Min Kato Cheif Warfinger

- Thomas Danaher Wharfinger

- Roger Bredenkamp Wharfinger

- Ned Whitmer Accounting

- Virginia Plantz Accounting

- John Shaw Accounting

- Gery Porter Engineering

John O'SheaEngineering

Donald Moran
 Engineering

#### FIRE DEPARTMENT

- James B. Souders Deputy Chief

- Eugene E. Nagel Assistant Chief

- David Larson Port Fire Officer

- Craig R. Halker Fire Marshal

#### COAST GUARD

Captain Walt White Captain of the Port's

Office

- Lt. Comdr. Skip Onstad Captain of the Port's

Office

- Lt. N.S. Porter Captain of the Port's

Office

## PERSONS AND ORGANIZATIONS CONSULTED

#### PORT OF LOS ANGELES

Norm Arikawa

- Pete Mandia

- Robert Weir

#### COASTAL COMMISSION

Mike Dadasovich

- Trevor O'Neil

- Kevin Smith

#### NON-GOVERNMENTAL

- Dick Kolodziejski

- Bart McGhee

- Al Ames

- Gene Borg

Bob Raymon

- David Hoppes

- R.J. Jacobsen

- M.T. Bohlman

Accounting

Planning

Energy and Ocean

Resources

CEIP Coordinator

Crescent Terminals

Pacific Maritime Assoc.

Pacific Maritime Assoc.

Metropolitan Stevedore

Metropolitan Stevedore

Marine Terminals

Jacobsen Pilot Service,

Inc.

Sealand Service, Inc.

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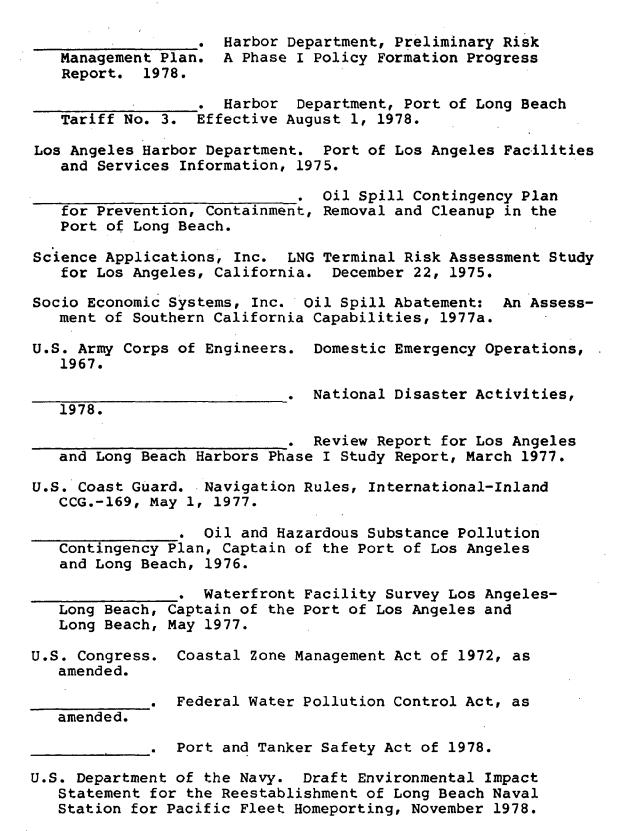
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June 7, 1979, Part IV, Display of Hazardous Materials Identification Numbers; Improved Emergency Response Capability; Proposed Rules.

**APPENDICES** 

APPENDIX A
VESSEL SAFETY PROVISIONS
SUPPLEMENTAL MATERIALS

Office Phones 834,4553 775-6386

## JACOBSEN PILOT SERVICE, INC. Los Angeles and Long Beach Harbors

## U. B. FEDERAL LICENSED PILOTS

1324 NORTH AVALON BLVD.
P. O. BOX 248
WILMINGTON, CALIFORNIA 90748

#### GUIDELINES - CLEARANCES, DEPTHS, LIMITATIONS

#### A. Sea Approaches

- 1. Large deep draft ships should have minimum under keel clearance of 10% of the vessel's draft for safe passage of the sea approach.
- 2. When a heavy swell is running, attention must be given to increase of draft due to heel.
- 3. The following vessels should transit the approach and proceed to destination during daylight hours and good visibility.
  - a. Vessels enroute to anchorages S-1, S-2, U-1.
    Draft 50 feet and greater.
  - b. Vessels enroute to Berth #118 Draft 54 feet and greater.
- 4. Large deep draft vessels should not be moved with visibility less than three-quarters of a mile.

  Attention will be given to special instructions issued by the Captain of the Port.

#### B. <u>Cerritos Channel</u>

- Pilots will use prudent judgement in deciding on a transit, taking into consideration the conditions existing at the time of the job; such as wind, weather, trim of vessel, draft and traffic density.
- Vessels having a beam in excess of 90 feet should not transit the Ford Avenue and Helm Bridges.
- 3. Transit should note be made when a vessel is moored at long Beach Berth #101, unless a departure from this rule is required by special clucumstances and is approved by management.

> OFFICE PHONES 694-4553 775-6386

#### JACOBSEN PILOT SERVICE, INC. Los Angeles and Long Beach Harbors

U. S. FEDERAL LICENSED PILOTS

13R4 NORTH AVAION BLVD.
P. O. BOX 24B
WILMINGTON, CALIFORNIA 90748

December 21, 1977

Destretof

#### Gentlemen:

As you are aware, during recent years the ships calling at Long Beach/ Los Angeles Harbors have increased a great deal in length, beam and draft. Passage of these vessels through or into certain channels and slips frequently involves close passing tolerances, timing for favorable stage of tide and coordination with other moored or moving ships.

In order to assure safest movement of vessels our pilot organization has formulated some basic guidelines relative to certain channel clearances, under keel depths, passage clear of moored vessels etc. A copy of same is attached for your perusal and reference.

These are the guidelines which our personnel will follow. We believe them to be safe and extended to practical limits. Deviation from same is not recommended, but requests for exceptions will be considered on an individual case basis. We feel strongly, however, that these provisions represent practical limits.

We trust that these guidelines will be informative, and may prove helpful in your planning of vessel movements.

Very truly yours,

Jacobsen Pilot Service, Inc.

lel KATO

#### D. Channel 2 - Long Beach - Continued:

- 3. When vessels are moored at Berth 77 and 73 at the same time:
  - a. A third vessel will not be taken to or away from Berth 76.
  - b. Any deviation from this rule shall be a special circumstance and subject to approval by management.

#### E. Long Beach Berth - 73 (Powerine Terminal)

- 1. Vessels assigned to Berth 73 should not exceed length 830 feet, beam 130 feet, and draft 40 feet.
- 2. No vessel should be assigned to Berth 73 if there

  is a ship at Berth 76 Or 77 and the combined beams

  of the two ships exceed 160 feet.
- 3. The time of docking at Berth 73 will be predicated upon the Tides and the draft of the vessel.
- 4. It is not considered prudent to pass a vessel at Berth 78 or 77 if the combined beams of the two ships exceed 185 feet and 160 feet respectively.
- 5. It must be born in mind that circumstances and emergency demands may justify some variance in the above limitations. Each vessel will be considered on an individual basis, keeping in mind wind, weather, tugs, pilot, etc.
- 6. <u>Departure Draft:</u>

Vessel Length	<u>Fwd Draft</u>	Aft Draft
500-600 ft.	15 ft.	20 ft.
600-700 ft.	20 ft.	25 ft.
700-over	25 ft.	30 ft.

#### F. Los Angeles Berths 165-166; U.S. Borax Facility:

1. Due to the configuration of the berths on the east side of Slip I, Los Angeles Harbor, a large vessel moored at Berths 165-166 frequently extends beyond the North end of Berth 165 and beyond the extended pier head line of Berth 164.

#### C. Back Channel - Long Beach

When transiting Back Channel, particular attention will be directed toward the total combined beams of the transiting vessel plus that of a vessel moored at Berth 118.

1. Combined beam 225 - 250 feet:

The Pilot Station will notify Pacific Towboat & Salvage Co., so that their floating equipment can be singled up. Such requests must be made sufficiently in advance to permit Pacific Towboat & Salvage to comply.

2. Combined beams of vessels 250 - 260 feet:

It is recommended that the transit not be made if the combined beams exceed 250 feet. However, special circumstances such as weather, type of vessel, etc., may be judged sufficient to justify exceeding this limit. This shall be a decision by management.

- 3. A vessel will not transit if the combined beams exceed 260 feet.
- 4. Pilot Station personnel will endeavor to anticipate these situations as far in advance as possible. Such developments will immediately be called to the attentio of R.J. Jacobsen or designee or the appropriate Pilot Watch Captain. Necessary steps will then be taken to coordinate the intended movement so as to avoid potentially hazardous situations and minimize delays to the vessels involved.
- 5. When a large, deep draft vessel is preparing to transit Back Channel, while a large vessel is moored at Berth 118, the Pilot will request the dispatcher to call Berth 118 to inform the vessel so that personnel may tighten slack lines and stand by to shut down pumping in the event the vessel should surge badly.

#### D. <u>Channel No. 2'- Long Beach</u>

- 1. When transiting Channel 2 to the inner berths while vessel(s) are moored at Berth 78 or 77, attention will be given to the combined beams of the transiting vessel and that of the vessel(s) at the berth(s).
- 2. Enrouth to Berth 76:
  A vessel will not transit if the combined beams of the transiting ship and vessels at Berth 78 or 77 exceed 185 feet.

#### F. Los Angeles Berths 165-166; U.S. Borax Facility - Continued:

- 2. When an order is received to dock or undock a vessel to the North of the Borax Facility, i.e., Berths 158-159 and Berths 163-164, it is requested that one hour prior notice be given to the U.S. Borax Facility in order that a vessel berthed at 165-166 may be shifted clear.
  - a. Check with the Marine Exchange or with the Borax Facility to determine whether or not a vessel is moored at Berths 165-166.
  - b. If a vessel is in the berths, then notify the following who in turn will advise the master to shift his vessel:
    - 1. United States Borax Co., Berth 166
       Phone: 835-0121
       Mr. James Parker
       Mr. L.G. Parrish
    - 2. After normal working hours, notify the Foreman who in turn will notify the master.

      Phone: 835-0121

#### G. Los Angeles Berths 70-71 (GATX Terminal)

Keep in mind the limited depth alongside. The time of docking shall be scheduled based upon tide and draft of the vessel.

#### H Los Angeles Berths 38-39 and West Channel.

Attention should be given to water depths and shoaling condition in West Channel.

In order to avoid the 14 foot shoal in the western half of West Channel, vessels are cautioned to transit within the east half of the channel. Outbound heavily ladened vessels should depart only on a favorable tide.

#### Los Angeles - Berths 46/49-50

Vessels enroute to Berth 46 should transit the sea approach and berth alongside at a favorable stage of tide!

Draft should not exceed 48 feet.

#### RELIEF VALVES

SET AND SEAL		BY	SETTI	NG	
	(date)	GAS DETECTION	SYSTEM	. /	
observe syst	EM OPERATION AND N	OTE ANY UNUSUAL R	EADINGS	,	
			Yes	No	
	t 30% of IEL				
Audial and V Tog for read	isual alarm at car ings during voyage	go control statio	n		
Frequency of	readings and cycl	e time			**************************************
or absence o voids and ba	obtain a statemen f any abnormal tem rrier spaces. Rev eering casualty, e	peratures, pressu iew voyage log fo	res, or accumulat r indications of	ions in tanks emergencies	,
					•
Yes No		VESSEL			•
10	•				
	Gauges functioning	properly, calibr	ated		
	Gas detection syst				
	Audio and visual Quick closing val			rable and set	at 30%
	Cargo pumps in goo			able.	
	Fire fighting equi				est
	at	lbs.	_		
	Flanges, expansion			l cargo valves	show
	no signs of deteri				
	Intrinsically safe	e equipment in goo	d condition.	rahan da asa t	
	Electrical cables, No hot work or oth				conditi
	Designated smoking				
	Bonding cable betw	reen ship and shor	e proper with hol	ted or "C" c	lamo
	attachment.	· · · · · · · · · · · · · · · · · · ·	- factor many non		
	All ship's supervi	sory personnel fl	mently speak and	understand En	nglish.
	Flanges secured wi	th bolt in every	hole.		-
	Vessel's fire syst			•	
	Temperature sensir			ogged.	
· · · · · · · · · · · · · · · · · · ·	Liquid level alarm				
	Current records of	t tests and inspec	tions.		
	<u>B01</u>	LIER BURN OFF SYST	EM (LNG ONLY)		
	Supply piping in g				•
	Alarm system worki				
	Hood for boiler fr				
· · · · · · · · · · · · · · · · · · ·	Automatic valves i				4 0
	Master line valve	ra rocated away	rom machinery sp	aces, automat	r.c
-	or manual shut down Shut down instruct	m operates. tions posted in E	nglish and langua	ge of operati	ng
•	personnel.				

#### TANKSHIP EXAMINATION CHECK LIST

The examination should not be a standard procedural action but varied to the extent necessary to assure safety. Therefore the check list should not be considered as a step by step guide to be completed at each examination but as a memory aid and a full coverage form to record facts in whatever areas the examination is made.

	*, *, *	D	ate	,	·
Vessel Name_		Official No.	Cal	ll Sign	
lear Constructed	Registry	Las	t U.S. Port	of Cal	1
Next U.S. Port of	Call	ЕТА	G.T	_DWT	_Length
Type Cargo Inertin	g System+		_Type/Grade	of Car	:go
Manifest	De	eclaration of	Inspection	1	
Cargo/Bunker Trans	fer Procedures			•	
Master				,	•
Vessel Owner_					
Address					
Vessel Operator					
Address					
Agent					
Address					
		Issuing Agency	Issue Date		Expiration Date
Document					
Certificate of Reg	istry				· · · · · · · · · · · · · · · · · · ·
Safety Equipment Co	ertificate	<del> </del>	<u> </u>		· · · · · · · · · · · · · · · · · · ·
Safety Construction	Certificate		<u> </u>		**************************************
Safety Radiotelegra Certificate	aphy				
Safety Radiotelepho	ony Certificate	2			
		Insp	ection Offi	ce	
		Inspe	ector		
		Sign	ature		

A - 7

·	•.	Issuing Agency	Issue Date	Expiration Date
Document			<u> </u>	
Certificate of Fi	nancial			
Load Line Certifi	cate .	in the second of the second		
Classification Sc Certification	ociety			
IMCO Certificate				
Letter of Complia	ance	•		
Cargo Tank Pressu Relief Valve Certification (LC				
Pollution Complia				
	OFFICERS	COMPETENCY DATA		
	NAME	TYPE OF LICENSE OR CERTIFICATE AND NUMBER		ISSUING NATION
MASTER				
CHIEF OFFICER				
SECOND OFFICER				
THIRD OFFICER				
CHIEF ENGINEER				
FIRST ENGINEER				- The state of the
SECOND ENGINEER			1	

A.	GENERAL	SAFETY RULES
	<u></u>	Warning signals and signs.
	<u></u>	Cargo tank hatches, ullage holes, and Butterworth openings closed (or fitted with flame screens).
	<u></u> ✓ 3.	Emergency Equipment.
	<u></u>	Vessel properly moored.
. •	<u></u>	Non-sparking tools.
В.	CARGO HA	ANDLING, BALLASTING AND BUNKERING
	1.	Scuppers and sea valves closed.
	<u>/</u> / 2.	Cargo transfer connections.
	<u>/</u> _/ 3.	Deck Officer/tankerman on duty on deck.
•	<u>/</u> /4.	Intrinsically safe portable radios
	<u></u>	Additional sources of vapor ignition (Mid-Ship House and Mid-Ship house segregation space).
		edges satisfactory.  Portable window-type air conditioners and fans secured.  Designated smoking areas marked and observed.  Ships ventilation ducting on weather decks, wasted, holed or flame screens defective.
c.	CARGO PU	MPROOMS
	1.	Potential sources of ignition in or near pumproom.  Gear adrift, non-sparking tools.  Product in bilges.  Rags, paint, cleaning solvents, etc  Excessive vapors.
	<u>/</u> 2.	ELECTRICAL
		Lighting fixtures explosion proof.  Electrical controls and switches located outside pumproom  Dead/ended, loose or frayed cabling.  Jury rigs such as extension cords, drop cords, etc
	<u>/</u> / 3	STRUCTURAL
,		Bulkheads gas tight (cracks, holes, bulkhead seals)
	<u>/</u> / 4.	VENTILATION
	e	Ducting wasted or missing Fire dampers inoperative or missing. Flame screens dirty, corroded, missing Operational

,		
•	<u>/_/</u> 5.	PUMPS (cargo, bilge, ballast, stripping)
		Leaking product (other than gland lubrication)
		Mechanical and electrical remote operating devices attached and
	•	operational at all locations.
:		Suction and discharge valves and piping intact.
,		Gauging system (open, closed, restricted).
D.	PIPING S	YSTEMS (cargo, bunker, ballast, stripping).
	<u></u>	Piping
	<del></del>	Valves
	•	Fittings
		Gaskets
	,	Supports
E.	WEATHER I	חקרצים
• نار	WEATHER	DECKS
٠,	/ / 1.	Expansion Trunks
	<del></del>	
		Wastage of ullage coamings and trunks
		Gaskets
	•	Covers
	<u> </u>	Plating (hull and superstructure)
		Wasted, holed, cracks.
		Leaking products or vapors into or out of vessel.
	<u>/</u> / 3.	Electrical Equipment
	•	Intact and intrinsically safe for location.  Properly installed.
		Deadended, loose or frayed cable
	•	Portable electric tools intrinsically safe for location.
F.	VENT SYS	TEMS (Weather Decks and at Deck House entrances).
	<u> </u>	Vent Piping and vent masts.
٠.	•	Material condition
	-	Properly supported
٠.		Gaskets-flanges. Valving in vent system piping.
		Agiand in seuc system bibing.
	<u>/</u> / 2.	Pressure Vacuum Valves and Headers.
		Free of Corrosion/dirt.
		Operation.
	•	Flame screens.
	<u></u>	Flame Screens.
		Cleanliness and material condition.
		On all cargo, bunker, oily bailast and oily slop tanks and
		void vents.
		On all open ullage, Butterworth, hatch openings.

· G.	FIRE PRO	TECTION EQUIPMENT	
	<u></u>	Firemain Systems	٠.
	,		
		Piping, valves, pumps.  Hoses, spanner wrenches, nozzel satisfactory.	٠.
		Remotes.	
	•		
	// 2.	Steam Smothering System	٠.
			·(
		Valves, leaking.	
		Piping, wasted, missing, blanked.	
. •	/_/ 3.	Deck Foam	
		Piping intact.	-
	• •	Valves.	
		Monitors and hose stations.	
:		Foam.	
н.	Treseaut	NG EQUIPMENT	
n.	PILESMAT	WG POOTENENT	
	/ / 1.	Satisfactory.	
•			
ı.	VITAL MA	CHINERY	
	<u>/</u> _/ 1.	Satisfactory	
J.	NAVIGATI	ONAL SAFETY AND VESSEL INSPECTION REGULATIONS	
	33 CFR 1	64.22	
	33 CFR 1	.04.33	
	<del>/ /</del> 1.	Charts of the area to be transited, published by National Ocean	
		Survey, U.S. Army Corps of Engineers, or a river Authority (or	
		a foreign government if containing similar information) of large	
		enough scale to permit safe navigation, of the most recent edition	n
	•	available and currently corrected.	
	• <del>• • • • • • • • • • • • • • • • • • </del>		
	<u>/</u> / 2.	Publications of the United States government or river authority	
		(or a foreign government if containing similar information), of	
	•	the most recent edition available and currently corrected, or	
		appropriate extracts therefrom, as follows:	
		U.S. Coast Pilot	
	1.0	Coast Guard Light List	
		Notice to Mariners	
		Tide Tables	
		Tide Current Tables	
	33 CFR 1	.64.35	
	,		
	//1.	Marine radar for surface navigation.	
		Marine laddr for Surface havigation.	
	<u></u>	Illuminated magnetic steering compass	

	<u> </u>	Magnetic compass deviation table or graph, or comparison record
	<u> </u>	Gyrocompass
	<u></u>	Illuminated steering gyrocompass repeater.
	<u> </u>	Illuminated rudder angle indicator in the wheel house.
	7.	Maneuvering information prominently displayed on fact sheet in wheelhouse.
	<u>/_/</u> 8.	An echo depth sounding device.
	<u> </u>	A device that can continuously record the depth readings of the vessel's echo depth sounding device.
	<u>/</u> _/10.	Equipment on the bridge for plotting relative motion.
	33 CFR 1	64.11(q)
	1.	Log entries.
•	Den	otes Vessel Not in Compliance
ĸ.	POLLUTIO	N PREVENTION REGULATIONS
	1.	Oil Record Book-Date of Last discharge Location
	<u>/_/ 2.</u>	155.310 Cargo Oil Discharge Containment.
	<u></u>	155.320 Fuel Oil Discharge Containment
	<u></u>	155.330 Retention of Oily Bilge Slops on Board
	<u>/</u> / 5.	155.340 Discharge of Bilge Slops
	<u>/ /</u> 6.	155.370 Ballast Discharge (Vessels That Ballast Fuel Tanks Only)
	<u></u>	155.400 Oily Waste Processing Equipment
	<u></u>	155.410 Oily Waste Transfer Equipment
	<u> </u>	155.470 Prohibited Oil Spaces
	/_/10.	155.700 Designation of Person In Charge
	<u>/</u> 11.	155.710 Qualifications of Person In Charge
	<u>/</u> 12.	155.720 Oil Transfer Procedures
	<u></u>	155.730 Compliance With Oil Transfer Procedures

/ 14. 155	.740 Posting of Oil Transfer Procedures
15. 155	.750 Contents of Oil Transfer Procedures
<u> </u>	.780 Emergency Shutdown
<u> </u>	.790 Deck Lighting
<u> </u>	.800 Oil Transfer Hoses
<u> </u>	.820 Records
<u></u>	.110 Persons in Charge (PIC)
<u>/_/</u> 21. 156	.120 Requirements for Oil Transfer
<u>/_/</u> 22. 156	.130 Connections
<u>/</u> 23. 156	.150 Declaration of Inspection (DOI)
<u>/</u> 24. 156	.160 Supervision By Person In Charge (PIC)
<u>/</u> 25. 156	.170 Equipment Tests and Inspections (Includes hoses, relief Valves, gauges, piping & remote operating or indicating equipment).
/ / Denotes	Vessel Not In Compliance
33 CFR 159.7	Marine Sanitation Device
Required: YE	s /_/
NO	

PS Form 010-76

#### APPENDIX I

## ING/LPG INSPECTION FORM FOR VESSELS AND FACILITIES

VESSEL NAME/FIAG	·	DATE		
GROSS/NET TONS	CALL	SIGN		
IEWTH	OFFICIAL NUMBER			
	DOCUMENTATION	•		
SOLAS EQUIPMENT		LOAD LINE		
SOLAS CONSTRUCTION		CFR		
TOVALOP		CRISTA L		
CLASSIFICATION SOCIETY	CERTIFICATE		,	
LETTER OF COMPLIANCE D	TD			
· · · · · · · · · · · · · · · · · · ·		OTTO LINOT	•	
OWNER		OPERATOR		
•			<del>ladina in grant in</del>	
			didentificance.	
ATT & TOMOTO		ACTIVIT	·	
CHARTER		AGENT	•	
	OADGO ON TOAK	On		
	CARGO ON BOAL	TOUCHA A MOUNT	THUTTOTMAN	
NAME	STOWAGE	the state of the s	INHIBITOR	EXP DAT
**************************************				·i
				•
				<del></del>
				-
<del> </del>		<del></del>		-

## Appendix I

Vessel Date					
Transfer facility Location					
Α.	i, Master of the SS/MS	•			
Μ.	acknowledge receipting three copies of the Regulation for Vessels Calling at Atlantic Rich	ofield Company			
	and ARCO Pipe Line Company Terminals.	meio Company			
В.	I agree to make sure that every officer standing a deck cargo or bunkering watch shall recomply with these regulations.	ead and shall			
C.	I further agree to ensure that all crew members are notified where designated smoking as	reas are located.			
D.	☐ YES — my vessel has had				
	an event or casualty during sea passage which				
	NO my vessel has not had '				
	may give reason for concern. Reter to Terminal Regulations, Part 1, General Rules and I Section T. If my vessel has had an event or casualty during sea passage, I have given a the Terminal Representative and I will give a written report as soon as possible.				
E.	I fully understand that if these Terminal Regulations are not complied with, the vessel may be asked by the terminal to immediately disconnect and leave the berth.				
F.	A pre-transfer conference has been held between the Terminal Representative and the V Chief Mate to review the following details pertaining to the transfer operations:	essel Master and			
	1. The identity of the materials to be transferred.				
	2. The sequence of transfer operations.				
	3. The transfer rate.				
	4. The name or title and location of each person participating in the transfer operation.				
	5. Particulars of the transferring and receiving systems and inerting system if equipped.				
	6. Critical stages of the transfer operation.				
	7. Federal, State, and local rules that apply to the transfer operations.				
	8. Emergency procedures.				
	9. Oil spill containment procedures.				
	10. Oil spill reporting procedures.				
	11. Watch or shift arrangement.				
	12. Transfer shutdown procedures.				
	13. Crude washing to be performed.	☐ Yes ☐ No			
Vess	sel Master signature				
Chie	f Mate signature				
Tora	ninal Representative signature				

A.R.CO.-1540 Front (4-78)

			Declara Prior To	ation Of Ir Bulk Ca	spection- rgo Transfe
A	•	•		Date	
/essel		Port of			
Fransfer facility	. :	Location			
The tollowing list refers to requirements The spaces adjacent to items on the list					1. (see reverse side).
				Deliverer	Receiver
Communication system/tanguage fluency	(156.120 (m) (p))	<del></del>	<u>-</u>		ļ
. Warning signs and red warning signals	(35.35 -30)				
3. Vessels moorings	(156.120 (a))				<u> </u>
. Transfer system alignment	(156.120 (d))				ļ.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
. Transfer system: unused components	(156.120 (e))				
. Transfer system; fixed piping	(156.120 (1))				
Overboard discharges/sea suction valves	(156.120 (g))				
. Hoses or loading arms condition	(156 120 (h)) (156 170)				
. Hoses, length and support	(156.120 (b) (c))				<u> </u>
). Connections	(156.130)				
I. Discharge containment system	(156.120 (j) (i))				
2. Scuppers or drains	(156.120 (k))				
i. Emergency shutdown	(156.120 (n))				
Repair work authorization	(35 35 -30)				
Boiler and gattey fires safety	(35.35 -30)	•			
. Fires or open flames	(35 35 -30)				
7. Lighting (sunset to sunrise)	(156.120 (t))				
3. Sale smoking spaces	(35.35 -30)				
). Spill and emergency shutdown procedures	(156 120 (q))				
D. Sufficient personnel	(156.120 (o) (s))				
1. Transfer conference	(158.120 (q))				
2. Agreement to begin transfer	(156.120 (r))				
I do certify that I have personally in and that opposite each of them I ha	spected this facility or ves	sel with reference ations have been o	to the requirent complied with.	nents set forth in Si	ection 35.35-30
Person in charge of Receiving	Unit	Title		Т	ime and date
	-				·
					······································
Person in charge of Delivery	Unit	Title	····	1	ime and date

7	1	_

### Appendix III

Vessel	Part of	<del>*</del>			
Transfer facility	Location		··		
		·	Time/Date		
All of the below items have been inspected. Indicate Yes or No in the	в арргорлаке вноск after each item.				
Manifold valves or fittings, reference terminal regulations, Part	1, Section H. (Indicate N/A if not applicable.)				
2. Unused cargo, bunker, or stern discharge manifolds are fitted	with blank flanges.				
3. Radio transmitter-receiver provided to vessel by terminal.					
4. Inert gas system in operation. (If vessel not equipped, then in	ndicate N/A.)				
5. Sufficient mooring lines and properly tended.					
6. Fire hoses connected and laid out, with adequate water press	sure.				
7. Portable fire extinguisher at manifold.					
Emergency towing wires rigged, fore and aft.				1	
Smoking regulations being observed.					
10. External accommodation doors and ports are closed.					
11. Amidship house shelter deck doors on main deck are open.					
12. All flame screens are properly fitted and in good condition.					
13. Ventilators are suitably trimmed with regard to prevailing win	d condition.				
14. Ship's main transmitting aenals are switched off.					
15. Electric cables to portable equipment are disconnected from	power.				
16. Window-type air conditioning units are disconnected.					
17. There has been a test of the emergency stop signal.					
18. Are there any unauthorized craft alongside?				1	
19. Seals have been placed on sea suctions of cargo and ballas	st systems.				
20. Pumproom bilges are dry and gas free.					
21. Scuppers and drains cemented or plugged					
Chief Mate's signature	Terminal Representative's sign	nature			

APPENDIX B
INTERAGENCY COORDINATION
SUPPLEMENTAL MATERIALS

## INSTRUCTIONS FOR USE OF CLOSED CIRCUIT TELETYPE NET

#### 1. Policy Statement

The regulations and procedures governing the establishment and use of the closed teletype circuit between Los Angeles Pilot Station, Long Beach Pilot Station, Captain of the Port, Los Angeles-Long Beach, Naval Station, Long Beach, Port Warden, Los Angeles and Marine Exchange, Los Angeles, shall be as prescribed hereunder. Changes to the policy as specified herein and as agreed to by all subscribers may be made at any time. However, such changes shall be in writing.

#### 2. Purpose

The purposes of the subject circuit are:

- (a) To exchange, between the subscribers, daily ships' movement schedules within, to and from the Los Angeles-Long Beach Harbors in order to promote the safe, orderly flow of ship traffic in the said harbors.
- (b) To handle urgent and emergency messages between the various subscribers.
- (c) To provide a rapid means of communication for the coordination and control of ship movements during emergencies by responsible authorities.

#### 3. Subscribers

The subscribers to the services to be received over the closed teletype circuit are: Los Angeles Pilot Station; Long Beach Pilot Station; Captain of the Port Los Angeles-Long Beach; Naval Station Long Beach; Port Warden Los Angeles and the Marine Exclange, Los Angeles.

#### 4. Copies, Distribution and Retention

The number of copies of ships' movement schedules, or changes thereto, produced at each station, the distribution of those copies within subscribers' organizations and the retention time of schedule records will be the prerogative of each station.

#### 5. <u>Security</u>

- a. No copies or reproductions of any information received over the subject teletype circuit shall be given aw y, sold or otherwise make known to persons or organizations other than the aforementioned subscribers, except as unanimously agreed to by these subscribers.
- b. The United States Coast Guard and the United States Navy shall have authority to discontinue or change any part of the information given subscribers over the closed teletype circuit when it is their opinion that such action is required in the interest of national security.

#### 6. Withdrawing from Closed Teletype Circuit

Any subscriber may cease providing the prescribed information on the subject circuit and may withdraw from same upon giving two weeks notice in writing to the other subscribers.

## 7. Payment, Personnel, Material and Maintenance for Closed Teletype Circuit

Each subscriber individually shall pay for the installation maintenance and rental of the closed teletype ciruit terminal at his station and for the personnel and material required in the operation of the circuit.

#### 8. Operational Procedures of Closed Teletype Net

#### a. <u>Call Signs</u>

Navy Port Services Office	NV
Long Beach Pilot Station	LB
Los Angeles Pilot Station	LA
Port Warden, Los Angeles Harbor	
Department	PW-
Marine Exchange	ΜX
Captain of the Port	CG

#### b. Times of Promulgation of Daily Ship Movement Schedules

Navy Port Services Office	0100
Los Angeles Pilot Station	0200
Long Beach Pilot Station	0300
Port Warden, Los Angeles HD	
Marine Exchange	
Captain of the Port	

#### c. Items to be listed on daily ship movement schedules

- (1) Date
- (2) Time. (Use local time, 24 hour clock. Entry represents time departing sea buoy for berth or anchorage, or time departing berth or anchorage for sea buoy or another berth).
- (3) Type of vessel/name of vessel. (Note: omission of type signifies vessel is a cargo vessel. See list of abbreviations for types).
- (4) D parture point (LB Sea Buoy, LA Sea Buoy, berth number or anchorage\*)
- (5) Destination in port (LB Sea Buoy, LA Sea Buoy, berth number or anchorage\*)
- \*Berth number should specify LA or LB, e.g., LA 49, LB 122. Anchorage should specify area, E.G., ANC A, B, C, D, or E.

- (6) Station/Sequence Number. (Station identified by call sign. New sequence started each day at 0000 local time, commencing with "l" and continuing until 2400.
- (7) Remarks (e.g., dangerous cargo, limited maneuverability, via Cerritos Channel, etc.)
  - (8) BT (indicated end of message)
- (9) Date of transmission/time transmission completed/originated station/initials of operator

See attachment 1 for prescribed format to be used for daily ships' movement schedules.

- d. Changes, Additions, Deletions to Daily Ships' Movement Schedules
  During Day
  - (1) Transmitted on teletype when they become known during day
- (2) Changes shall be made to the daily ships! movement schedules if the ship's movement is off more than one hour
- (3) See attachment 2 for prescribed format to be used in announcing changes to daily ships' movement schedules.
  - e. Authorized Abbreviations
    - (1) Vessel Types

TS - Tanker

TT - Tug with Tow

TB - Tanker Barge

P - Passenger Vessel

CV - Carrier

A0 - Oiler

DD - Destroyer

BB - Battleship

C - Cruiser

SS - Submarine

MS - Minesweeper

PC - Patrol Craft

A - Amphibious Ship

S - Supply Ship

Note: If type omitted, assume ship is cargo vessel

(2) Miscellaneous

SEA/LA - Los Angeles Sea Buoy SEA/LB - Long Beach Sea Buoy EMERG - Emergency Message 'URG - Urgent Me sage

V - Vice

CH - Change (Change to previous ship movement report)

CC - Cerritos Channel
BT - End of transmission

(Call Sign)/OFF NET - Station identified by call sign is going off line temporarily

(Call Sign)/ON NET - Station iden fied by fall sign is back on the line

#### f. Conflict in Movements

- (1) Any subscriber noticing a possible conflict in ships' movements which may jeopardize the safety of ships involved shall call this fact to the attention of the pertinent other subscriber and seek a resolution of the difficulty. This communication should normally be handled by telephone.
- (2) By furnishing information of prospective ships' movements, the subscribers hereto do not warrant the accuracy of such information and do not intend by giving such information to advise the ship's master, Commander Officer, or pilot as to what moves he should make or when he should make them.

#### g. Emergency Use of Circuit

o ja gazagaga anggagaran di moto di masa

In times of emergency, transmission of routine traffic should be delayed until the emergency is over. See attachment 3 for sample of emergency transmission.

- h. The end of each transmission shall be indicated by "BT" which shall be the last line of the transmission. See attachment (1) for examples.
- i. Only urgent or emergency messages shall be acknowledged. See attachment 3 for format of acknowledgement.
- j. The sender shall ring the bell 5 times at the end of each emergency or urgent message.

#### SAMPLE DAILY SCHEDULE FROM NAVY PORT SERVICES

3 AUG 68

0800 CV/YORKTOWN SEA/LB LB125 9-13 N2 0900 AO/NAVASOTA LA 38

Berths in Naval Base are identified by both pier and berth number. \*Note:

pier number first.

0915 DD/STRAUS - 16-1

SEA/LB

N3 Steering trouble

BT

3 AUG/0105/NV/RB

#### SAMPLE DAILY SCHEDULE FROM LB PILOTS

3 AUG 68

0600 \*TUSCON VICTORY . SEA/LB ANC E LBI

Absence of type indicator means vessel is a cargo vessel

0630 TS/DAVID E. DAY Via CC LB79 LA173 LB2 0700 TT/RED STACK-BARGE LB36 LA240 LB3

\*\*Note: Absence of remark, "Via CC", means shift will be via outer harbor

BT

3 AUG/0255/LB/RJ

#### SAMPLE DAILY SCHEDULE FROM LA PILOTS

3 AUG 68

LA93 LAT 0700 P/LURLINE SEA/LA 0730 TS/TORREY CANYON SEA/LA LA46 1 A2 47 Ft draft restricts movement to 51 Ft channel. Other vessels should keep clear.

LA49 SEA/LA 48 Ft dra t restricts 1000 SAN JUAN EXPORTER LA3 movement to 51 Ft channel. Other vessels should keep clear.

3 AUG/0200/LA/JK

## SAMPLE ANNOUNCEMENT OF CHANGES TO DAILY SCHEDULE

3 AUG 68

N1 CH 0830

N2 CH Cancel

N3 CH 7-2 V 16-1

1215 DD/CAPETOWN SEA/LB LB127 N4

BT

3 AUG/0700/NV/BL

#### SAMPLE URGENT MESSAGE

URGENT
FROM LA PILOTS
120 000 TON TANKSHIP MUSHIMUSHI MARU IN LIGHT
CONDITION SCHEDULED TO MOVE UNDER FLAT TOW FROM LA46
TO ANC C AT 1700. STRONG WINDS EXPECTED THEN WILL
HANDICAP MANEUVERABILITY. OTHER VESSELS SHOULD KEEP CLEAR.
BT
28 OCT/1505/LA/JM
R LB
R NV
R CG

PW

#### SAMPLE EMERGENCY MESSAGE

**EMERG** FROM CG MAJOR CRUDE OIL SPILL WITH HIGH FIRE HAZARD COVERS TURNING BASIN FROM VINCENT THOMAS BRIDGE TO MORMON ISLAND. COTP ORDERS THAT NO SHIP EXCEPT FIRE AND EMERGENCY CRAFT MOVE IN MAIN CHANNEL NORTH OF BERTHS LA 92 AND LA 229 OR IN EAST BASIN CHANNEL SOUTHWEST OF BERTHS LA 176 AND LA 215 OR IN TURNING BASIN EAST OF BERTHS LA 147 AND LA 183 UNTIL FURTHER NOTICE 28 OCT/2200/CG/SR R LA LB MX R N۷ PW

## SUBMIT FIVE (5) COPIES NOTIFICATION

#### DANGEROUS CARGO TRANSACTION

	Date:	
TO: CAPTAIN OF THE PO	RT, LONG BEACH-LOS ANGELES	
and/or ( ) DISCHARGING	Lance with Title 33, CFR, Subpart 126.27(b) for ( ) LOW Dangerous Cargo, is hereby given for:	ADING
	•	<del></del>
	NATIONALITY	
	AGENT/OWNER	
	OF THE OPERATION	
SPECIAL PROVISIONS		
Chapter I, Subchapter	ditions set forth in Title 33, Code of Federal Regulation. Subpart 126.15, will be and are complied with at the ity during this operation.	ions e
	Signature:	
	Title:	~~~
	Mailing Address:	
ENDORSEMENT 1	Date:	<del></del>
	rtment does hereby (Approve) (Disapprove) the operatio cation subject to the following conditions:	n as
	Signature:	
	Title: Chief Wharfinger	
ENDORSEMENT 2	Date:	
Long Beach Fire Departstated in basic notification	ment does hereby (Approve) (Disapprove) the operation cation subject to the following conditions:	as
	Signature:	
	Title: Captain, Fire Prevention	n

#### CARSO SUCH AS NAPALMS

		BERTH		DATE:
	ATIONS TO BE ENFORCED. THE SPECIAL PROVISIONS:	HIS PERMIT IS	ISSUED AND	ACCEPTED SUBJECT TO
1.	Towing pennants shall be stern on vessel's offshore			
2.	Bunkering shall be prohil			
3.	There shall be no burning			
4.	Fire hoses shall be conne			
_	lengths of hose will be			
5•	USCG Class III cargo shall loading other cargo and w			
	Toading other cargo and	WILL DE CLAUSI	errea arrec	cry from cruck to ship
6.	Notify Fire Prevention, (	Chief Wharfing	er Office.	and USCG, COTP, of
	any changes in dangerous			
	of first list.			
7.	Dangerous cargo on wharf	to be kept is	olated as p	er previously
	approved plan.			
8.	Any violation of any of		-	
	immediately cause this pe			
9•	It shall be the full responder of these instructions	•	the Agent	to inform the Master
	of owner of these institut	COTORD.		
STATE, OR THE CONDI	IONS CONTAINED HEREIN ARE MUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCE	AS WAIVING PR PTED AND WILL	RECAUTIONS R	EQUIRED FOR SAFETY.
STATE, OR THE CONDI	MUNICIPAL REGULATIONS OR	AS WAIVING PR PTED AND WILL	RECAUTIONS R	EQUIRED FOR SAFETY.
STATE, OR THE CONDI	MUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCEN ONS IMPOSED BY COMPETENT AU	AS WAIVING PR PTED AND WILL UTHORITY.	RECAUTIONS R BE ENFORCED	EQUIRED FOR SAFETY.
STATE, OR THE CONDI	MUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCE	AS WAIVING PR PTED AND WILL UTHORITY.	RECAUTIONS R	EQUIRED FOR SAFETY.
TATE, OR THE CONDI	MUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCEN ONS IMPOSED BY COMPETENT AU	AS WAIVING PR PTED AND WILL UTHORITY.	RECAUTIONS R BE ENFORCED	EQUIRED FOR SAFETY.
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STATE, OR THE CONDI	MUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCEINS IMPOSED BY COMPETENT AUTOMOSED BY COMPETENT AUTOMOSED'S Authorized Agent	AS WAIVING PR PTED AND WILL UTHORITY.	RECAUTIONS R BE ENFORCED  Master	EQUIRED FOR SAFETY. TOGETHER WITH OTHER
STATE, OR THE CONDI	MUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCEN ONS IMPOSED BY COMPETENT AU	AS WAIVING PR PTED AND WILL UTHORITY.	RECAUTIONS R BE ENFORCED	EQUIRED FOR SAFETY. TOGETHER WITH OTHER
STATE, OR THE CONDI	MUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCEINS IMPOSED BY COMPETENT AUTOMOSED BY COMPETENT AUTOMOSED'S Authorized Agent	AS WAIVING PR PTED AND WILL UTHORITY.	RECAUTIONS R BE ENFORCED  Master	EQUIRED FOR SAFETY. TOGETHER WITH OTHER
STATE, OR THE CONDI	MUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCES ONS IMPOSED BY COMPETENT AN Vessel's Authorized Agent Terminal Agent	AS WAIVING PR PTED AND WILL UTHORITY.	RECAUTIONS R BE ENFORCED  Master	EQUIRED FOR SAFETY. TOGETHER WITH OTHER
STATE, OR THE CONDI	MUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCEINS IMPOSED BY COMPETENT AUTOMOSED BY COMPETENT AUTOMOSED'S Authorized Agent	AS WAIVING PR PTED AND WILL UTHORITY.	RECAUTIONS R BE ENFORCED  Master	EQUIRED FOR SAFETY. TOGETHER WITH OTHER
STATE, OR THE CONDI PRECAUTIC	MUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCEINS IMPOSED BY COMPETENT AUTOMOSE Authorized Agent Terminal Agent	AS WAIVING PRETED AND WILL UTHORITY.	RECAUTIONS R BE ENFORCED  Master  Stevedoring	EQUIRED FOR SAFETY. TOGETHER WITH OTHER
STATE, OR THE CONDI PRECAUTIO	MUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCES ONS IMPOSED BY COMPETENT AN Vessel's Authorized Agent Terminal Agent	AS WAIVING PRETED AND WILL UTHORITY.	RECAUTIONS R BE ENFORCED  Master  Stevedoring	EQUIRED FOR SAFETY. TOGETHER WITH OTHER
STATE, OR THE CONDI PRECAUTIO	MUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCEINS IMPOSED BY COMPETENT AUTOMOSE Authorized Agent Terminal Agent	AS WAIVING PRETED AND WILL UTHORITY.	RECAUTIONS R BE ENFORCED  Master  Stevedoring	EQUIRED FOR SAFETY. TOGETHER WITH OTHER
STATE, OR THE CONDI PRECAUTIO	MUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCES ONS IMPOSED BY COMPETENT AND Vessel's Authorized Agent Terminal Agent COTP, U. S. COAST GUARD OED SUBJECT TO SATISFACTORY	AS WAIVING PRETED AND WILL UTHORITY.	ECAUTIONS R BE ENFORCED  Master  Stevedoring  F VESSEL.	EQUIRED FOR SAFETY. , TOGETHER WITH OTHER
STATE, OR THE CONDI PRECAUTIC	MUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCEINS IMPOSED BY COMPETENT AUTOMOSE Authorized Agent Terminal Agent	AS WAIVING PRETED AND WILL UTHORITY.	ECAUTIONS R BE ENFORCED  Master  Stevedoring  F VESSEL.	EQUIRED FOR SAFETY. TOGETHER WITH OTHER
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STATE, OR THE CONDI PRECAUTIO	WUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCES ONS IMPOSED BY COMPETENT AND Vessel's Authorized Agent Terminal Agent  COTP, U. S. COAST GUARD OED SUBJECT TO SATISFACTORY Chief Wharfinger anted subject to all of the content of	AS WAIVING PRETED AND WILL UTHORITY.	Master  Stevedoring  F VESSEL.  Captain, F:	EQUIRED FOR SAFETY. , TOGETHER WITH OTHER  g Company  ire Prevention
STATE, OR THE CONDI PRECAUTIO	WUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCESS IN SOME THIS PERMIT ACCESS IN SOME THE SERVICE AND THE SERVICE AND THE SUBJECT TO SATISFACTORY Chief Wharfinger anted subject to all of the T. J. THORLEY	AS WAIVING PRETED AND WILL UTHORITY.	Master  Stevedoring  F VESSEL.  Captain, F:	EQUIRED FOR SAFETY. , TOGETHER WITH OTHER  g Company  ire Prevention
STATE, OR THE CONDI PRECAUTIO	WUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCES ON SIMPOSED BY COMPETENT AND Vessel's Authorized Agent Terminal Agent  COTP, U. S. COAST GUARD  ED SUBJECT TO SATISFACTORY  Chief Wharfinger anted subject to all of the T. J. THORLEY General Manager,	AS WAIVING PRETED AND WILL UTHORITY.	Master  Stevedoring  F VESSEL.  Captain, F:	EQUIRED FOR SAFETY. , TOGETHER WITH OTHER  g Company  ire Prevention
STATE, OR THE CONDI PRECAUTIO	WUNICIPAL REGULATIONS OR TIONS OF THIS PERMIT ACCESS IN SOME THIS PERMIT ACCESS IN SOME THE SERVICE AND THE SERVICE AND THE SUBJECT TO SATISFACTORY Chief Wharfinger anted subject to all of the T. J. THORLEY	AS WAIVING PRETED AND WILL UTHORITY.	Master  Stevedoring  F VESSEL.  Captain, F:	EQUIRED FOR SAFETY. , TOGETHER WITH OTHER  g Company  ire Prevention

# FOR VESSELS FULLY LOADED WITH CLASS "A" EXPROSIVES REQUESTING LB ANCHORAGE

#### LONG BEACH HARBOR

	LONG BEACH HANDON	•
	DANGEROUS CARGO	Permit No.
	PERMIT & AGREEMENT	Date
Vessel Name		
Master's Name	License	No
Berth Assigned	Bunkerin	g At
Local Agents	Stauadar	i no
Tug Boats Preferred for E	mergency Call	
THIS PERMIT IS ISSUED FOR		
RETENTION ON BOARD ( ) T	RANSPORTATION OF CLASS	A, B AND C EXPLOSIVES,
AND OTHER DANGEROUS CARGO	).	
QUANTITY AND DESCRIPTION:		•
This Permit is issued and	l accepted subject to t	he following provisions
pliance with ICC s conformance with a regulations. Carg dangerous cargo on of the Federal Reg OUS ARTICIES ON BO Secretary of Comme Revised Statutes ( GUARD TANK VESSEL to Sec. 4417a of t 391a) and any othe or regulations. A revised to conform	culations entitled "EXP DARD VESSELS" as amende erce pursuant to Sec. 4 46 U.S.C. Para. 170) a REGULATIONS", as amend the U. S. Revised Statu er applicable Federal, also 46 CFR 146.20-43 a to Public Law 562.	ll be transported in te and Municipal and stowing of all mply with the provision LOSIVES OR OTHER DANGER d, promulgated by the 472, amended, U.S. COAST ed promulgated pursuant tes (46 U.S.C. Para. State or Municipal laws nd 33 CFR 126.19, as
tiously as practic stowage over night	cosives and flammables able from docks, wharved. When necessarily stathin 10 feet of a door	es and sheds, without
position 1 mile so and departing, sha He shall test equi	stop for pilot and inspouth of Long Beach sea all be equipped with a pment before leaving P and shall maintain com	buoy. Pilot, entering two-way portable radio.
cc: AGENT MASTER FILE	U.S. COAST GUAF FIRE PREVENTION M.T.C. U.S. ARMY	

- 4. The vessel shall be subject to thorough inspection by Long Beach Harbor and Fire Department representatives and the Master, at the explosive anchorage or other designated place. A fire drill may be required at any time while vessel is in Long Beach Harbor. Ships carrying Class A explosives shall not enter or leave dock while visibility is less than 500 yards for prominent objects.
- 5. The vessel shall maintain "at sea" operation of main and auxiliary machinery while underway. (It is desirable to avoid shifting to "port" operation while approaching the port, passing through the entrance, or while in the vicinity of vessels moving or at anchor. Change of steam cycle, generator burner tips, etc., is undesirable while approaching, entering, or in the vicinity of vessels moving or at anchor.)
- 6. The vessel's steering engine station shall be manned while approaching, entering, or going to berth with personnel competent to shift to and from emergency steering. Communication to and from vessel's bridge and steering engine station shall be tested and established before nearing the entrance to the port.
- 7. Vessel's anchors shall be kept ready for instant use and an officer shall be forward with competent assistants to work ground tackle.
- 8. Communication from vessel's control station to forecastle shall be tested before entering, leaving or moving in the port.
- 9. The vessel's backing power, whistle and siren shall be tested before entering, leaving or moving in the port.
- 10. The vessel shall be in all respects prepared for entry, with sufficient and adequate power, personnel and facilities for emergency maneuvering.
- 11. (a) While the vessel is under way, the Master shall be present at the vessel's ship control station and shall maintain supervision of vessel's navigation, regardless of whether a pilot is employed.
  - (b) This ship shall withhold its passage through the breakwater gap should another ocean vessel then be in actual or imminent navigation of the passage.
- 12. Cargo stowage plan shall be subject to examination by Long Beach Harbor and Fire Department representatives.
- 13. Bilges shall be emptied before docking and shall be kept free of oily waste. Vessels shall be kept free of combustible waste while in the harbor. All combustible refuse must be disposed of before the vessel enters the harbor or immediately thereafter.
- 14. The dock alongside entire length of ship to be kept free and entirely clear of all rubbish, trash, litter, etc.

- 15. Vessel shall dock bow to seaward.
- 16. Vessel shall maintain surveillance of all persons boarding. All unauthorized persons and those who are apparently intoxicated, irrespective of whom they may be (excluded from ship) not to be allowed to board ship at time cargo is being handled or hatches open.
- 17. The Master or Chief Officer and Chief Engineer or First
  Assistant Engineer, shall be on board at all times when Class
  A explosives are present or being handled. Sufficient competent
  personnel shall be on board at all times to take the vessel to
  the explosive anchorage or to sea.
- 18. Vessel shall at all times be ready to get underway under its own power, within minutes, with its own personnel or have adequate towboat assistance standing by. A licensed Marine Engineer to be on watch at all times in the propulsion machinery compartment when a large quantity of Class A explosives is on board.
- 19. Wire towing pennants shall be made fast to bitts and ranged out bow and stern on vessel's offshore side convenient to towboats. Jacobs ladder to be rigged amidship in a manner that it can be immediately lowered for boarding party in event of emergency, these to be rigged before vessel docks.
- 20. Bunkering shall be prohibited while Class A explosives are being handled. Bunkering not to start until scuppers are plugged, deck lookout posted, intercommunication established and all other preparations made.
- 21. (a) No other cargo shall be worked at the same time in the same hatch in which Class A explosives are being loaded or discharged, or in any hatch in which Class A explosives are stowed, unless the explosives are in sealed steel magazines.
  - (b) No liquid flammables to be stowed anywhere within same hold or hatch as the explosives.
  - (c) Red Label and liquid flammables are to be the last cargo loaded aboard the vessel.
  - (d) Vessels carrying Class A explosives are not to dock until cargo workers are ready to commence operations and shall vacate the dock when cargo operations are finished.
  - (e) Whenever there is a suspension of cargo operations for a prolonged period, vessels carrying Class A explosives shall vacate the dock and move to anchorage in the explosives anchorage until such time as cargo work is to be resumed, if so requested by the General Manager of the Long Beach Harbor Department or the Chief of the Long Beach Fire Department.

- 22. Personnel employed by the ship or its agents shall be informed of explosives or other particularly dangerous cargo on board. Each change of workmen to be informed by the employers.
- 23. A daily dock trial with engine warm-up will be required to test vessel's readiness to move under its own power.
- 24. All air ports or side ports of vessel on dock side to be securely closed or screened during cargo operation until hatches are closed.
- 25. Boilers shall not be lit off unless licensed engineer is in attendance and special fire fighting equipment is ready to extinguish burning oil.
- 26. There shall be no burning operations for repairs or alteration on vessel except under surveillance of a licensed ship's officer with adequate fire extinguishing equipment immediately available and special written permission from the Long Beach Harbor and Fire Departments.
- 27.(a) On vessels carrying Class A explosives, smoking shall be prohibited in hatches, holds, sleeping quarters, on weather decks and every other place except the following places herein designated by the Master:

Washrooms, toilets, messrooms, engine room, galley and a designated & placarded area inside passage main deck.

- (b) Permissable smoking areas shall be placarded and suitable fire resistance receptacles shall be provided for discarded tobacco and matches.
- (c) No smoking to be permitted in transit sheds, highline, or cargo storage areas.
- 28.(a) No person shall be permitted to enter holds or cargo hatches with matches or cigarette lighter in his posession.
  - (b) Whenever a hold is open, the ship shall maintain a competent person therein to supress smoking and other dangerous practices equipped with a portable fire extinguisher acceptable to the Long Beach Fire Department.
  - (c) If watchmen are to be absent for even a short period of time, they shall be relieved by a competent person.
- 29. Fire fighting facilities shall be ample and in satisfactory working order. Fire hoses shall be connected and ready for immediate use and hose of sufficient length to reach into compartments containing explosives.

- 30.(a) Explosive compartment containing Class A explosives shall be inspected by a ship's officer at a minimum of 3-hour intervals and the inspection recorded in the ship's official log, including temperature noted. Consequential increase of temperature shall at once be reported to the Long Beach Fire Department.
  - (b) Smoke detector device on vessels so equipped shall be kept fully operative. If device is not equipped with an efficient audible alarm that sounds within hearing of personnel on watch, a ship's officer shall make observation of its visual indicator at a minimum of 3-hour intervals and the observations shall be recorded in the ship's official log.
  - (c) The vessel's ship control station (such as navigation bridge, etc.) shall be at all times unlocked and shall be accessible while explosives are aboard any vessel within the confines of Long Beach Harbor.
  - (d) All watchmen, when reporting for duty, shall be shown the nearest automatic fire alarm location on shore and the nearest telephone and the location of the ship's general alarm and the ship's whistle.
- 31. Before any heavy lifts are moved over a hatch containing Class A explosives, the gear shall be subjected to inspection by a bonded marine surveyor. Unmoused or open hooks should not be used.
- 32. Class A, B or C explosives shall be the last cargo to be loaded and shall have priority of discharge.
- 33. Operation of the vessel and cargo work shall be maintained satisfactory to Long Beach Harbor and Fire Department representatives while vessel is in port. Whenever conditions arise that may be considered hazardous, operations shall be suspended and if requested by Harbor or Fire Department representatives, vessel shall be moved. There shall be a progressive cleanup while the vessel is in port. Any imprudent operation evidenced during vessel's stay shall be suppressed by the Master. Vessels shall be kept free of combustible refuse.
- 34. Class A explosives shall be handled only during daylight hours.
- 35. Fire on board shall be signaled immediately by five prolonged blasts on the ship's whistle, siren, or fog horn and by other available means. In case of fire or other emergency, vessel shall at once vacate the dock if deemed necessary by Long Beach Harbor or Fire Department representative, or by the Master or Officer in charge. The vessel may be moved by the Harbor or Fire Department representatives and the charges incurred will be accepted and paid by the vessel.

- 36.(a) An alarm shall be given the Long Beach City Fire Department immediately when any fire is discovered on board. The signing and acceptance of this permit is a request by the vessel to the Chief of the Long Beach Fire Department to take over fire fighting operations in case of fire and the ship's personnel shall render assistance.
  - (b) Terminal shall give telephone notice of cargo handling time to the Fire Department by calling Long Beach Fire Department, HEmlock 6-8211, at least 24 hours in advance of operations.
  - (c) There shall be a responsible Terminal Operator designated by name:
- 37. Any violation of any of the conditions of this permit shall ipso facto immediately cause this permit to become null and void.
- 38. This permit may be revoked and cancelled at any time by the General Manager, Long Beach Harbor Department or by the Chief, Long Beach Fire Department.
- 39. It shall be the full responsibility of the Agent to inform the Master or Owner of these instructions.
- 40. Compliance is not required with the provisions of paragraphs
- 41. Before cargo work commences, there shall be a pre-work conference on board the vessel attended by all parties represented in the signing of this agreement.
- 42. Signers of this agreement will state at the pre-work conference their recommendations, if any, for additional precautions or their inability to conform to the prescribed precautions.

Special	Provisions:	
-		•

No provisions contained herein are to be construed contrary to existing Federal, State, or Municipal regulations or as waiving precautions required for safety and by good seamanship.

The conditions of the permit accepted and will be enforced, together with other precautions imposed by competent authority, as agreed upon at the pre-work conference on board ship.

STEVEDORING CO. SIGNATURE	VESSEL'S AUTHORIZED AGENT
Permit approved for issuance, subject to:	
***************************************	MASTER
	TERMINAL AGENT
	Recommended, subject to satisfactory inspection of the vessel.
V. M. Jones, Chief Long Beach Fire Department	Chief Wharfinger
Ву	Permit granted subject to all of the
Title	provisions hereinabove set forth.
Date	T. J. THORLEY
	General Manager, Long Beach Harbor Department
• • •	
R. C. Hertica Captain, U.S. Coast Guard	
Ву	
Title	•
Date	<del>-</del>

### LIQUIFIED PETROLEUM GAS VESSEL

TY OF LOS ANGELES pertment of Fire 6 North Main Street 5 Angeles, CA U.S. COAST GUARD Captain of the Port 165 North Pico Ave Long Beach, CA CITY OF LOS ANGELES Harbor Department 255 West 5th Street San Pedro, CA

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## REQUIREMENTS FOR LIQUIFIED PETROLEUM GAS TRANSFER VESSEL AND FACILITY

Tank Vessel Inspector will inspect ship prior to transfer.

Additional inspections will be made by concerned agencies as needed.

- The Person-in-Charge shall speak fluent English. If not possible, a crewman who speaks English shall be stationed near the shutdown button or valve and shall maintain continuous radio communication with Terminal and Vessel Persons-in-Charge.
- Vessel has red flag or light. Warning signs on wharf, gangway, radio room, and off-shore side of vessel in place.
- 3. Mooring lines are strong enough to hold and of sufficient length to adjust to all conditions.
- 4. Transfer system aligned and ready to transfer.
- 5. Unnecessary or unused components of the transfer system shall be blanked off with gaskets and at least 4 bolts, or an approved blanking device.
- The cargo transfer system shall be connected to fixed piping system.
- 7. Loading arm must be long enough to allow ship movement and supported so as to prevent strain on coupling.
- 8. Suitable material must be used in joints and coupling to make a tight seal.
- Loading arm connections must be made with the proper size bolts in every hole.
- 10. The Persons-in-Charge shall remain in the immediate vicinity of the transfer operation and be immediately available to the transfer personnel to supervise connections, disconnections, and emergency shutdowns.
- No fire or open flame will be permitted. All repair work on vessel or wharf which can serve as an ignition source must have prior approval of LAFD, USCG and LAHD.
- 12. Power or manual spark producing devices shall not be operated on weather decks, in pumprooms, in cargo or fuel tanks, or compartments which may accumulate vapors.

- 3. Boiler and galley fires will not be a fire hazard during transfer operations.
- All sources of ignition shall be removed, eliminated or secured within 200 feet of vessel.
- The vessel and shore facility will have adequate lighting to safely conduct the transfer operation.
  - Smoking shall be permitted only in approved designated areas. No smoking signs shall be posted elsewhere.
  - 7. A pre-transfer conference has been held by the Persons-in-Charge covering:

products; discharge sequence and rates; names of persons involved; transfer system details and critical stages; other applicable rules; emergency, discharge containment and reporting, and shutdown procedures; and shift change procedures.

- b. Sufficient personnel are present for the transfer: For the ship, a licensed Deck Officer and two Assistants. For the Terminal, the Person-in-Charge and two Assistant.
- 9. Sufficient crewmen to get the vessel underway in an emergency shall remain aboard the vessel at all times.
- The Terminal and Vessel Persons-in-Charge shall indicate to each other that they are ready to transfer prior to starting the transfer.
  - 1. Intoxicated, disorderly, and unauthorized persons shall not be permitted on the terminal or aboard the vessel. Exception crewmen who are escorted from the gate to the vessel by ship's personnel.
- All cargo and personnel compartment openings will be closed during transfer except when required to be temporarily opered.
- Stores and supplies shall not be loaded during any transfer or tank cleaning operation unless approved by Hazardous Cargo Inspector.
- Sufficient, serviceable fire hose equipped with suitable nozzles, shall be attached to fire main and ready for instant use. There shall be adequate water pressure to supply at least 50 lbs. pressure at each working fire hose nozzle.
  - Emergency towing wires shall be rigged outboard fore and aft and maintained within 2 meters of water surface.
  - Transfer system connections shall be continually checked for leaks and pressure gauges checked to insure the maximum working pressure is not exceeded.

- If a spill occurs, it shall be reported immediately to the Persons-in-Charge.
- Three security guards shall be maintained at the terminal while the vessel is moored at the wharf.
- Maintenance stores and supplies shall be stowed in a remote clean shed only in quantities necessary for current operations. The facility shall be free of rubbish, debris, and waste materials except in approved location or containers. Soiled rags shall be kept in covered metal containers which shall be removed at the end of each working day.
- Electrical equipment shall be approved for the Hazardous Area it is used in. Only flashlights approved for use in Class 1, Group D Hazardous Areas shall be used on the Terminal and aboard vessel.
- If Electrical Bonding is used, it shall be activated by an approved switch prior to cargo hose connection and deactivated after cargo hose disconnection and spillage removal. The bonding system shall have a means of indicating continuity of the bond.
  - The Persons-in-Charge shall have cargo information cards for each cargo being handled immediately available.
  - Engines shall be kept ready and vessel trimmed in order to depart within 30 minutes in an emergency.
- ent piping shall be sound and free of leaks.
- All electrical installations in the pumproom shall be either explosion-proof and/or intrinsically safe. Installations on the weather deck and in spaces bounding cargo tanks shall be properly maintained and not pose any hazards. (Example: globes removed from light fixtures.) Wiring shall be in good condition in these areas.
- Electric cables to portable equipment shall be disconnected unless certified for use in hazardous areas. There shall be no exposed electrical wires aboard the ship.
- All communication equipment involved in the transfer operation shall be tested and properly working. Walkie-Talkies shall be tested hourly and immediately prior to transfer.
- Cargo related decks of the vessel shall remain free of dirty rags, rubbish, debris and loose tools. Dunnage shall be placed under any drums of metal deck cargo to eliminate danger or sparks.
- All cargo transfer and tank cleaning operations shall be immediately shutdown if any of the following occurs:
- a. Severe electrical storm.
- b. A fire occurs on the vessel, terinal or in the vicinity.

- c. Sufficient competent personnel are not present during cargo handling or a language barrier develops between vessel and facility.
- d. If a break occurs in transfer system, cargo is leaking at joints or connections at a rate exceeding the capacity of the containment system, or if a spill occurs.
- e. If a serious vapor condition develops aboard or around the vessel or wharf due to an abnormal dissipation.
- f. If any emergency arises which may result in a spill or affect the safety of the vessel or terminal.
- Cargo transferring shall begin slowly. Connection shall be inspected for leaks prior to transferring at operating pressure, and during transfer operations.
- \*1. All roadways to the wharf shall be properly maintained and unobstructed.
- 12. Vehicles shall be parked heading towards gate, unlocked and with keys in ignition unless parked in a designated parking area, 100 feet from vessel. Motor vehicles shall not be operated on a Marine Oil Terminal within 100 feet of a tank vessel during transfer operations, without prior approval of the Hazardous Cargo Inspector. Only electrically operated automotive equipment approved for use in hazardous areas shall be operated within 100 feet of transfer area.
- 3. There shall be at least five (5) 20 lbs. dry chemical portable fire extinguishers on deck. Two (2) shall be located at each side of the manifold and one at the gangway or accommodation ladder.
- If vessel design permits, all air intakes which may take in vapors or are within 35 meters of a cargo tank opening or venting point shall be closed. Compartment air intake vents shall be trimmed away from the cargo area to prevent intake of vapor. Window type air conditioning units facing cargo area shall be disconnected.

Main radio transmitting equipment shall be off during transfer.

- Additional Fire Protection In lieu of foam protection, this Department requests the following:
  - a. Two (2) monitors capable of delivering 500 G.P.M. each.
  - b. One hundred fifty (150) lbs. dry chemical extinguishing agent (portable).

gulations herein contained reflect laws contained in the Code of deral Regulations, Los Angeles Fire Code, and the Port of Los geles Tariff.

APPENDIX C
TERMINAL SAFETY PROVISIONS
SUPPLEMENTAL MATERIALS



May 25, 2979

Mr. W. A. Hartman Safety Officer The Port of Long Beach P. O. Box 570 Long Beach, California 90801

Dear Mr. Hartman:

Enclosed are copies of several Sea-Land procedures dealing with our handling of hazardous materials. I hope they will be of use to you in developing the risk management safety report.

Sincerely,

SEA-LAND SERVICE, INC.

M. T. Bohlman, Director Regulatory Compliance

MTB/tam Attachments



POLICY

### SEA-LAND SERVICE, INC.

PROCEDURE TECHNICAL MANUAL

### APPROVAL/TRANSMITTAL SHEET

REF. NO. 07-07-001

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## SEA-LAND SERVICE, INC. PROCEDURE

REF. NO. 07-07-001

DATE ISSUED 10 July 1978

SUBJECT: CARRIAGE OF HAZARDOUS MATERIALS
BY SEA-LAND

REVISION NO. Original

PAGE 1 of 4

### I. PROCEDURAL OVERVIEW

Guidelines are set forth that allow Sea-Land to handle the maximum amount of approved types of hazardous materials without derogating safety.

### II. ORGANIZATIONAL UNITS AFFECTED

- All Sea-Land Terminal, Port and Country Managers.
- All Division LP&C/SCS Managers
- All Sea Operations General Managers, Regional Managers and Managers.
- All Booking Personnel.
- All Sales Personnel.
- All Masters of Sea-Land Vessels.
- Members of the Hazardous Commodities Review Committee.

### III. DEFINITION OF TERMS

- Prohibited Cargo hazardous materials prohibited from carriage on Sea-Land vessels in any amount and under any circumstances.
- Restricted Cargo hazardous materials that may move on a Sea-Land vessel providing the individual move is approved in advance by the Hazardous Commodities Review Committee.
- Special Handling Cargo hazardous materials that can be moved on a Sea-Land vessel providing special standard procedures, as set forth in Exhibits A through H of this procedure, are followed.
- Hazardous Cargo that cargo that is regulated as a hazardous material and is not specifically listed within this procedure as prohibited, restricted, or cargo which requires special handling.

### IV. OTHER RELATED POLICIES OR PROCEDURES

Policy - 07-07 - Carriage of Hazardous Materials.

#### V. RESPONSIBLE STAFF DEPARTMENT

Land Operations Services Department, Elizabeth, N.J. (Hazardous Commodities Review Committee).



### SEA-LAND SERVICE. INC. PROCEDURE

REF. NO. 07-07-001

DATE ISSUED 10 July 1978

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SUBJECT: CARRIAGE OF HAZARDOUS MATERIALS

BY SEA-LAND

#### **PROCEDURE** VI.

PROHIBITED CARGO - Hazardous materials that are classified as either:

Arsine Boron Trichloride Chlorine Trifluoride Cryogenic Liquids Cyanogen Chloride Explosives, Class A (except water gel explosives and compatible booster explosives) Hydrogen Cyanide, Anhydrous Hydrogen Fluoride, Anhydrous Nitric Oxide Nitric Oxide & Nitrogen Tetroxide Mixtures Nitrogen Dioxide Organic Peroxides (requiring refrigeration for stability) Phosgene Poisons, Class A Pyrophoric Liquids (in packages over 110 gallons in size)

under the DOT System are prohibited from carriage by Sea-Land.

RESTRICTED CARGO - The following hazardous materials:

Ammonia, Anhydrous Boron Trifluoride Carbon Monoxide Chlorine Coal Gas Diborane Explosives, Class B Fluorine Hydrogen Bromide, Anhydrous Hydrogen Chloride, Anhydrous Hydrogen Sulphide Methyl Bromide Nitrosyl Chloride Oil Gas Pyrophoric liquids (in packages of 110 gallons capacity or less) Silicon Tetrafluoride Sodium Cyanide Sulfur Dioxide Trimethylamine, Anhydrous Water gel explosives and compatible booster explosives

\*Page Revised 1/29/79



## SEA-LAND SERVICE, INC. PROCEDURE

REF. NO. 07-07-001

DATE ISSUED 10 July 1978

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BY SEA-LAND

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PAGE 3 of 4

### VI. PROCEDURE (cont'd)

must be specifically approved for transport by the Hazardous Commodities Review Committee (HCRC) and the affected Division(s) prior to each move.

At least two weeks prior to the proposed move, the chairman of the HCRC must be furnished with at least the following information:

- 1. The proper shipping name of the material
- 2. The DOT and IMCO class of the material
- 3. The U.N. number of the material
- 4. The quantity of material
- 5. The packaging that will be used (DOT specification number)
- 6. The name and address of the shipper and consignee
- 7. The origin and destination and all intermediate ports of call

Within one week of receipt of the above listed information, the HCRC will, through its chairman, advise the affected Divisions whether or not the material is approved for carriage and if approved, will set forth those specific instructions that must be adhered to for carriage. Within one week of receipt of HCRC approval for carriage the affected Division(s) will advise the shipper whether or not the material is approved for carriage and, if approved, the specific instructions that must be adhered to for carriage. (These instructions will, as a minimum, reiterate the HCRC's instructions.) If disapproved by the HCRC for carriage the chairman of the HCRC will also notify the shipper through the affected Division.

- C. SPECIAL HANDLING CARGO The following hazardous materials:
  - -- Ammonium Nitrate
  - -- Ammunition
  - -- Cigarette Lighters (charged with fuel)
  - -- Explosives, Class C
  - -- Motor-fuel Antiknock Compound
  - -- Motor Vehicles
  - -- Radioactive Materials
  - -- Refrigerated Hazardous Materials
  - -- Tetraethyl Lead
  - -- Yellow Phosphorous

\*Page Revised 1/29/79



# SEA-LAND SERVICE, INC. PROCEDURE

REF. NO. 07-07-001

DATE ISSUED 10 July 1978

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PAGE 4 of 4

SUBJECT: CARRIAGE OF HAZARDOUS MATERIALS BY SEA-LAND

### VI. PROCEDURE (cont'd)

can only be carried as set forth in Exhibits A through H of this procedure.

D. OTHER HAZARDOUS MATERIALS - All other hazardous materials may be carried provided they are authorized for carriage aboard cargo vessels by DOT regulation 49 CFR 172.101, are in DOT authorized packages and are carried in full accordance with the regulations (49 CFR 100-199 and the IMCO Code).

### VII. EXHIBITS

No.	<u>Description</u>
<b>A</b> ·	Ammonium Nitrate and Nitro Carbo Nitrate Shipments Procedure
В	Cigarette Lighters Procedure
C	Class C Explosives and Ammunition Procedure
D	Hazardous Materials in Reefers Procedure
E	Motor-fuel Antiknock Compound, Tetra-ethyl Lead and Yellow Phosphorous Procedure
F	Motor Vehicles Procedure
G	Radioactive Materials Shipments Procedure
H	Flammable Liquids in Portable Tanks Procedure

\*Page Revised 1/29/79

DATE ISSUED 10 July 1978

REVISION NO. Original

PAGE EXHIBIT A

BY SEA-LAND

CARRIAGE OF HAZARDOUS MATERIALS

SUBJECT:

### AMMONIUM NITRATE AND NITRO CARBO NITRATE SHIPMENTS

Ammonium Nitrate and Nitro Carbo Nitrate Shipments are subject to many locally imposed restrictions and special handling provisions. Prior to booking any loads of Ammonium Nitrate or Nitro Carbo Nitrate these restrictions for the origin, destination, and each intermediate port must be ascertained and the decision made by local management that the movement can be economically and safely made.

The Regulations in 49 CFR 176.410 and 176.415 must be complied with.

DATE ISSUED

10 July 1978

REVISION NO.

NO. Original\*

PACE

EXHIBIT B

SUBJECT: CARRIAGE OF HAZARDOUS MATERIALS
BY SEA-LAND

#### CIGARETTE LIGHTER PROCEDURE

Cigarette lighters filled with flammable gas or liquid and fitted with an ignition device can only be carried:

- 1) If the design of the lighter and its packaging has been approved by the Transport System Center (T.S.C.) of the U.S. Department of Transportation
- 2) If a copy of the Transport System Center approval accompanies the shipment.
- 3) For lighters charged with flammable gas only, if each lighter contains no more than 2.3 fluid ounces of liquefied gas.

If the lighters are carried in closed containers, a warning sign must be affixed to the access doors. "WARNING - MAY CONTAIN EXPLOSIVE MIXTURES WITH AIR - KEEP IGNITION SOURCES AWAY WHEN OPENING." The warning must be on a contrasting background and must be readily legible from a distance of 25 feet.

The container (closed or vented) must be stowed on deck.

Cigarette lighters containing 50 ml. or less of flammable liquid fuel in each lighter, I liter or less of fuel in each package and no more than 10 liters of fuel in the total shipment (from one consignor to one consignee) and cigarette lighters containing 100 grams or less of flammable gas fuel in each lighter and packed in packages with a maximum gross weight of 10 kilograms, that are not being shipped into, out of, or over the United States, may be handled as non-regulated material, provided they are stowed on deck.

<sup>\*</sup>Page Revised October 16, 1978

DATE ISSUED 10 July 1978

SUBJECT: CARRIAGE OF HAZARDOUS MATERIALS
BY SEA-LAND

REVISION NO. Original

PAGE EXHIBIT C

### CLASS C EXPLOSIVES AND AMMUNITION PROCEDURE

Class C explosives and ammunition may be carried on-board Sea-Land vessels provided:

- 1. The following information is provided to the origin terminal, destination terminal, all intermediate ports of call, Director Loss Prevention, Corporate Terminal Operations, and to the Director Safety Engineering, Corporate IC&S at least one week prior to the loading of the vessel with the freight and none of these individuals disapproves the shipment:
  - a. The name and address of the shipper (not the forwarder)
  - b. The name and address of the consignee
  - c. The end use of the ammunition or explosives
  - d. The caliber and type of the ammunition
  - e. The number of rounds of each caliber
  - f. The gross weight of the cargo
  - g. The net weight of explosive
  - h. The type of packaging
  - i. The number of packages
  - j. The port of destination
- 2. The following information is provided prior to the vessel reaching its First Port of Call to the Director of Loss Prevention, Corporate Terminal Operations, and the Terminal and Marine Managers of each port through which the load is to pass:
  - a. The container number
  - b. The Booking number
- 3. A copy of the commercial invoice and packing list, from the shipper, is mailed to the destination port (attn: Terminal Marine Manager) in time to arrive before the vessel.

DATE ISSUED 10 July 1978

SUBJECT: CARRIAGE OF HAZARDOUS MATERIALS

BY SEA-LAND

REVISION NO. Original

PAGE EXHIBIT D

#### HAZARDOUS MATERIALS IN REFRIGERATED CONTAINERS

Organic peroxides requiring refrigeration for stabilization (see prohibited cargo list) and flammable liquids with a flash point below 0 degrees F are prohibited from carriage in an operating refrigerated container on board Sea-Land vessels.

The following categories of hazardous materials can be carried on board Sea-Land vessels in refrigerated containers only with the approval of Director, Perishable Commodities Service, Corporate SCS:\*

- a. Hazardous materials in packages fitted with vents or relief devices.
- b. Hazardous materials with an oral rate LD50 value of 3000 mg/kg or less.
- c. Hazardous materials with a flash point below 73 degrees F provided the set temperature of the reefer is at least 5 degrees below the product's flash point.
- d. Organic peroxides (other than those prohibited) with a SADT of 55 degrees F or higher.

In all cases, hazardous materials transported in refrigerated containers must be in packages that will maintain their integrity (i.e., leaktight) at an ambient temperature of 130 degrees F. For packages containing liquids the ullage space must not disappear at temperatures below 130 degrees F.

<sup>\*</sup> In the absence of the Director, PCS approvals may be granted by the Director, Regulatory Compliance; Manager, Regulatory Compliance; or Manager, Chemical Product R&D (SCS).

DATE ISSUED 10 July 1978

REVISION NO. Original

PAGE EXHIBIT E (pg. 1 of 4)

SUBJECT: CARRIAGE OF HAZARDOUS MATERIALS

BY SEA-LAND

MOTOR-FUEL ANTIKNOCK COMPOUND, TETRA-ETHYL LEAD AND YELLOW PHOSPHOROUS

Tetra-ethyl lead is prohibited from carriage in packages over 110 gallons capacity (i.e. bulk).

Motor-fuel antiknock compound and yellow phosphorous (under water) may be carried in bulk in portable tanks complying with the regulations in 49 CFR if emergency response information is provided by the shipper to the origin terminal Sea Operations Vessel Manager (Marine Manager if no Sea Operations Vessel Manager exists at that facility) for his presentation to the Master of the vessel prior to loading the portable tank aboard the vessel and the affected Divisions approve (based on the absence of local restrictions that would make the shipment economically or legally unacceptable) the move.

Drums of tetra-ethyl lead, motor-fuel antiknock compound and yellow phosphorous (under water), including empty drums previously containing these materials, can only be carried in containers bearing Sea-Land serial numbers above 42652, (excluding those in the 49000 series), and if:

- a. The drums are loaded as shown in pg. 2, 3 and 4 of this exhibit.
- b. The load is checked for proper blocking and bracing at the origin terminal by a qualified Sea-Land employee and cleared for carriage on our vessels or movement by rail, as appropriate.
- c. The load is checked for unacceptable blocking and bracing and leakage after the rail portion of the move has taken place at the railhead prior to movement to Sea-Land's facility.

Do not allow any leaking tetra-ethyl lead or motor-fuel antiknock compound to contact skin or clothing as death could result. Immediately report any leakage discovered to the shipper and to Director, Regulatory Compliance, Elizabeth and Director, Safety Engineering, Menlo Park.

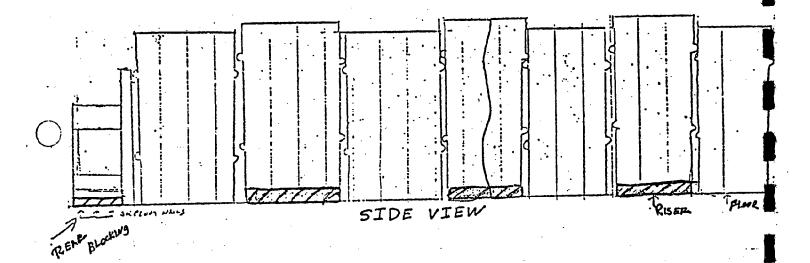
REF. NO. 07-07-001 DATE ISSUED 10 July 1978 CARRIAGE OF HAZARDOUS MATERIALS REVISION NO. Original BY SEA-LAND PAGE EXHIBIT E (pg. 2 of 4)

C-12

DATE ISSUED 10 July 1978

REVISION NO. Original

PAGE EXHIBIT E (pg. 3 of 4)



CARRIAGE OF HAZARDOUS MATERIALS

BY SEA-LAND

DATE ISSUED

10 July 1978

SUBJECT: CARRIAGE OF HAZARDOUS MATERIALS

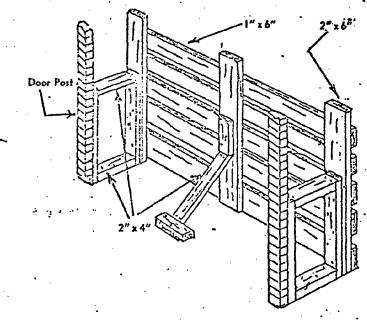
BY SEA-LAND

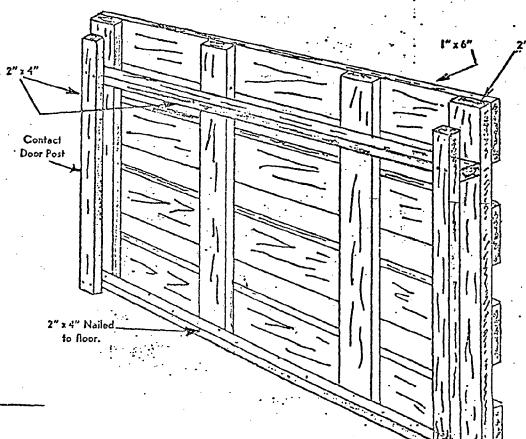
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PAGE

EXHIBIT E (pg. 4 of 4)





JATISFACTORY REAR BATES —

DATE ISSUED 10 July 1978

REVISION NO. Original

PAGE EXHIBIT F

SUBJECT: CARRIAGE OF HAZARDOUS MATERIALS

BY SEA-LAND

### MOTOR VEHICLES PROCEDURE

A Motor vehicle with the battery disconnected and the battery cables tied back, the gas tank completely drained and the engine run until all fuel within it is consumed <u>must</u> be shipped as a <u>non-regulated material</u>.

Motor vehicles not meeting all of the above criteria are regulated as ORM-C's. They may have a maximum of 1/4 of a tank of gas. They may be stowed in a closed container with a warning affixed to the access doors. "WARNING - MAY CONTAIN EXPLOSIVE MIXTURES WITH AIR - KEEP IGNITION SOURCES AWAY WHEN OPENING."

Stowage may be on deck or below deck.

DATE ISSUED 10 July 1978

SUBJECT: CARRIAGE OF HAZARDOUS MATERIALS
BY SEA-LAND

REVISION NO. Original

PAGE EXHIBIT G (pg. 1 of 3)

### RADIOACTIVE MATERIALS SHIPMENT PROCEDURE

Radioactive Materials are prohibited on board any Sea-Land vessel calling at any French, Italian, or Far East port.

On vessels not calling at these ports, radioactive materials may be carried provided the following occurs:

- 1. At least ten (10) days prior to the desired date of shipment a telex is sent to Director, Safety Engineering and Director of Insurance, Corporate IC&S and Manager Security, Corporate Terminal Operations giving:
  - a. The technical name of commodity
  - b. The commodities ultimate use
  - c. The name of the shipper
  - d. The name of the consignee
  - e. The origin of the shipment
  - f. The destination of the shipment
  - 2. Approval for the movement is received from Director, Safety Engineering and Director, Insurance.
- 3. Evidence of Nuclear Liability Insurance is provided (if the Director of Insurance requires the shipment to be insured). The shipper, consignee, or other party who has contractual responsibility must provide evidence of nuclear liability insurance with the following characteristics:
  - a. \$10,000,000 (U.S. dollars) minimum amount of insurance.
  - b. Name of insured must be Sea-Land Service and/or all subsidiary and affiliated companies and their owned and chartered vessels.
  - c. Policy must cover entire transit (inland origin to inland destination).
  - d. Policy must provide for cross-liability.
  - e. Policy must provide coverage for seaman claims.
- 4. A copy of the insurance policy with all endorsements (in English) is forwarded to Director of Insurance, Corporate IC&S.
- 5. A completed Radioactive Shipment Data Sheet, form SL 1904 (see page 3 of Exhibit H) is returned to the origin terminal prior to movement of the freight. (A telex containing the information may be used.)
- 6. All information on the completed data sheet is transmitted, prior to movement of the freight, to:

DATE ISSUED 10 July 1978

SUBJECT: CARRIAGE OF HAZARDOUS MATERIALS
BY SEA-LAND

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PAGE EXHIBIT G (pg. 2 of 3)

a. Origin terminal Terminal Manager and Terminal Marine Manager

- b. Destination terminal Terminal Manager and Terminal Marine Manager
- c. Every Terminal Manager and Terminal Marine Manager whose terminal the load is to transit or be relayed over
- d. The Director of Insurance, Corporate IC&S
- e. The Director of Safety Engineering, Corporate IC&S
- 7. Any applicable DOT exemption, (IAEA) or foreign special permits are distributed as in 5 above prior to movement of the freight.
- 8. A copy of any applicable DOT exemptions, IAEA or foreign special permits is attached to the Dangerous Cargo Manifest and the shipment is properly manifested by the Terminal Marine Manager at the origin terminal.
- 9. The U.S. Coast Guard Captain of the Port is notified at least 24 hours in advance of the arrival of the freight in his port, of the details of the move and estimates of time of arrival and departure by the Terminal Marine Manager. This requirement also applies to intermediate U.S. ports of call.
- 10. Upon receipt of the load the Terminal Manager at the origin terminal arranges the following:
  - a. A check of the blocking and bracing of the load within the container to ensure its adequacy for marine transport.
  - b. A check to ensure that the container is properly placarded (and marked with the DOT exemption number if appropriate).
  - c. The spotting of the container in a location where it can be readily observed.
  - d. Periodic checking for security
  - e. Application of cable seals or a quality padlock (key possession limited to Terminal Manager or LP&C Manager) if the container is a closed container.
- 11. A telex (departure message) is sent by the Terminal Manager of the origin and each intermediate terminal to all concerned terminals (6a, b, and c above) confirming the presence of the radioactive material on the vessel.
- 12. At least 48 hours prior to the vessel's arrival, notification of the ETA of the vessel is sent by the Terminal Marine Manager of each intermediate, relay and destination terminal to the appropriate national or local authorities.

DATE ISSUED 10 July 1978

SUBJECT: CARRIAGE OF HAZARDOUS MATERIALS

BY SEA-LAND

REVISION NO. Original

PAGE EXHIBIT G (pg. 3 of 3)

SEA-LAND SERVICE,		
RADIOACTIVE SHIPMENT I		
	•	
IMPORTANT: COMPLEYE ALL QUESTIONS AND TO LOCAL SEA-LAND REPRESENTATIVE BEFORE	SHIPMENT IS MADE.	
SHIPPER:		
CONSIGNEE:		<del></del>
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2. INTENDED USE CHICAGONIA CHESTICAL CAGRICULTUR	RAL	<del>~~~~~~~~~</del>
3. PACKAGES COMMERCIAL CISCIENTIFIC OTHER		
4. GROSS WEIGHT		<del></del>
5. NET WEIGHT		
6. SEA-LAND TRAILER NUMBER (If known)		·
7. DOT SPECIAL PERMIT OR IAEA CERTIFICATE NUMBER		
8. FOREIGN PERMIT NUMBER AND COUNTRY OF ISSUE		
9. NAME OF RADIOISOTOPE		<del></del>
10. WEIGHT OF RADIOISOTOPE		
11. FORM OF RADIOISOTOPE		
12. PERCENT ENRICHMENT		
13. ACTIVITY IN CURIES		
14. UN/IMCO NUMBER		
15. LABEL		
16. TRANSPORT GROUP	:	
17. TRANSPORT INDEX NO.	•	
18. FISSILE CLASS	•	
19. RADIATION AT ONE METER		
20. RADIATION AT SURFACE		
21. IS RADIDACTIVE MATERIAL IN ITS FINISHED FORM 🔲	(25  no licorte: If no, give detail of additional processing	ils on nature is beloved
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DATE ISSUED 10 July 1978

CARRIAGE OF HAZARDOUS MATERIALS

REVISION NO. Original

BY SEA-LAND

PAGE EXHIBIT H

Portable tanks containing liquids with a flash point below 100 degrees F cc should not be stowed:

- Adjacent to the reefer unit end of an operating reefer, on either side of an operating reefer, directly above the operating reefer, or in any location above these positions (see diagramatic sketch in Exhibit H of procedure 07-07-001).
- b. In proximity to a reefer jack unless that jack is shielded so as to preclude contact between any live electrical parts, including the plug, and any liquid that may escape from the

			رسادا والمساولة الشاران ويوان المساور	
Yes	Yes	Yes.	YEZ	YES
 - Yes	Na	NO REEFER UNIT	No	YES
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REVBER Policy

illustrated tier



□ POLICY

### SEA-LAND SERVICE, INC.

D3 PROCEDURE

### APPROVAL/TRANSMITTAL SHEET

☐ TECHNICAL MANUAL

REF. NO. 07-99-006 . DATE ISSUED 20 April 1978

· -	X) NEW		☐ CHAN	GE 	٠.		SION NO. ITACHED	1 - 2
SUBJECT: H	IAZARDOUS MATER	IALS PLACA	RDS	•			•	
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NEED OR PROP	BLEM:						•	
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### SEA-LAND SERVICE, INC.

### PROCEDURE

REF. NO. 07-99-006

DATE ISSUED 20 Apr. 1978

REVISION NO. 001

PAGE 1 of 2

SUBJECT: HAZARDOUS MATERIALS PLACARDS

### I. PROCEDURAL OVERVIEW

Containers shall be inspected for proper placards when entering the Sea-Land facility, when aboard ship and when leaving the terminal.

### II. ORGANIZATIONAL UNITS AFFECTED

- . All Sea-Land Port and Terminal Managers
- . Members of the Hazardous Commodities Review Committee
- . Masters of all Sea-Land Vessels

### III. DEFINITION OF TERMS

<u>Placard</u> - a Department of Transportation approved warning sign which indicates that hazardous materials are in the containers. Authorized placards are described in DOT regulations 49 CFR 172.519 through 172.558 and 172 Appendix A and B. These placards meet the IMCO code requirements for oversize labels.

#### IV. OTHER RELATED POLICIES OR PROCEDURES

None.

### V. RESPONSIBLE STAFF DEPARTMENT

Land Operations Services, Elizabeth, N.J.

### VI. PROCEDURE

### A. Inspection of containers

1. Entering or leaving a Sea-Land facility.

The Terminal Manager shall establish an inspection program which ensures that:

 All empty containers or those containing non-regulated material have the hazardous materials placards removed.



## SEA-LAND SERVICE, INC. PROCEDURE

REF. NO. 07-99-006

DATE ISSUED

20 Apr. 1978

REVISION NO.

001

PAGE 2 of 2

### VI. PROCEDURE (cont'd)

SUBJECT: HAZARDOUS MATERIALS PLACARDS

b. All containers which are carrying hazardous materials have properly placed placards, as detailed below, that properly describe the material within the container. The container must also agree with the accompanying documentation.

### 2. Stowed on deck of a vessel between ports

The master of the vessel shall establish an inspection program which ensures that containers listed on the Dangerous Cargo Manifest have the correct placard and that all other containers are not placarded. Where possible, improper placards and marking will be removed and proper placards affixed. Those containers which could not be checked, or those that could not be corrected and those that were corrected should be listed on a Hazardous Materials Exception Report (SL 2084), in the appropriate section.

### B. Corrective Action

Immediately upon docking at the destination terminal the Master of the vessel shall submit a properly completed SL 2084 to the Sea Operations Manager. (In those ports without a Sea Operations Manager, this report shall be submitted to the Marine Manager.) The Sea Operations Manager, or Marine Manager, as appropriate, will distribute the form to the destination and origin Terminal Marine Manager. The destination Terminal Marine Manager will ensure that all containers that could not be checked on board the vessel are checked and that all improper placarding is corrected prior to the containers leaving his facility.

### C. Placement of Placard

Containers loaded with hazardous materials (in any quantity) shall bear the proper placard; one on each side of the container. Each placard shall be applied as shown in Exhibit A. The placard shall be firmly affixed, clean enough to be legible, right side up and with the wording horizontal.

#### VII. EXHIBITS

No.

В

#### Subject

A Location of Hazardous Materials Placard

Hazardous Materials Exception Report (SL 2084)

07-99-006

20 Apr. 1978

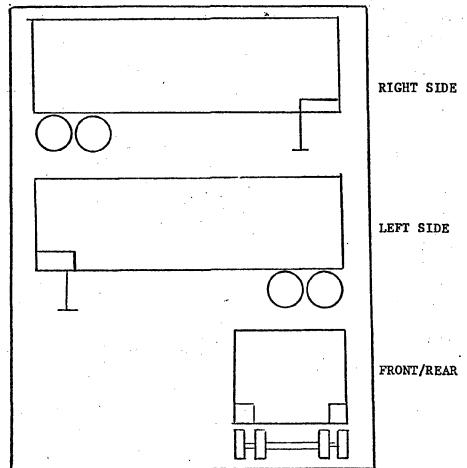
001

EXHIBIT A

SUBJECT: HAZARDOUS MATERIALS PLACARDS

### LOCATION OF HAZARDOUS MATERIALS PLACARDS

- 1. PLACARDS BEING APPLIED TO THE SIDES OF SEA-LAND CONTAINERS SHALL BE RESTRICTED TO A 2' X 4' RECTANGLE ADJACENT TO THE FRONT OF THE CONTAINER.
- 2. PLACARDS BEING APPLIED TO THE FRONT OR REAR OF SEA-LAND CONTAINERS SHALL BE RESTRICTED TO 2' X 2' SQUARES IN EACH BOTTOM CORNER.
- 3. PLACARDS BEING APPLIED TO TANK CONTAINERS SHALL BE INSERTED IN THE INSTALLED PLACARD HOLDERS.



SUBJECT: HAZARDOUS MATERIALS PLACARDS

001

EXHIBIT B

SSEL			Instructions: For where exceptions are noted. Caref Manifest should be departure and exceptions are delivered to Sea without Sea Operadocking. S/L Lea Incident Report m Incidents of a se communicated by Sthis form submitt	Instructions: Form to be completed for each leg of a voyage where exceptions to hazardous materials stowage or placarding are noted. Careful comparison with current Dangerous Cargo Manifest should be made during first routine rounds after departure and exceptions noted. Completed form to be delivered to Sea Operations Manager (Marine Manager in ports without Sea Operations Department) as soon as possible after docking. S/L Leaking Tank Report and DOT Hazardous Materials Incident Report must also be completed when applicable. Incidents of a serious or emergency nature should be communicated by SSB or CW at earliest opportunity with this form submitted as a follow-up.				
			Corrected by Vessel				rded-Not Correcte	
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### SEA-LAND SERVICE, INC.

### PROCEDURE TRANSMITTAL SHEET

DATE:

18 September 1978

TO: ALL PROCEDURE MANUAL HOLDERS

FROM: ELIZABETH - C. A. Rodina, Information Systems

SUBJECT: INSPECTION OF TANK EQUIPMENT

I. CONCURRENCE	<u>_</u>	II. INFORMATION COPIES TO
M. Bohlman  M. Bohlman  8	7-7-78 Date	J.J. Gallagher, Elizabeth G. Cople, Hong Kong T. Yost, Iselin S. Palen, Rotterdam
Beryand Sollaning	Date	J. Vanna, Oakland C. Raymond, Ft. Lauderdale N. Porter, Anchorage J. Hinchcliffe, Seattle R. Ingram, Rio De Janeiro
	Date	
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#### SIMMARY

All tank equipment must be inspected when entering a Sea-Land facility, whether empty, loaded or in relay. It is the responsibility of the origin terminal to only load tanks aboard a vessel which have been determined to be fit for service and for conditions which will be encountered at sea without leaking.



## APPROVAL/TRANSMITTAL SHEET

□ P		IX PROCE NEW		☐ TEC	•	MANUAL	DA' REV	TE ISSUED	07-99-015 16 Jan. 1 Original 2
SUBJECT:	TNSPFCT	ION OF TANK	FOULDMEN	Tr.		•			
SUBJECT:	INDI LOI	ION OI IAM	EQUILITEM .	•	•				
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NEED OR PR	ROBLEM:							•	
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SUBMITTED	BY:	MI S	ohlme	R			DATE:	16 Jan	uary 1979
APPROVED I	BY:	М. Т. Во	hlman						
•	OPERATIN	G COMMITTEE	(BY):				DATE		
	CHIEF EX	ECUTIVE OFFIC	ER:				DATE		
SL 2022 6/77			<del></del>	C-26				<del>~.~</del>	



REF. NO. 07-99-015

DATE ISSUED 18 Sept. 1978

REVISION NO. Original

PAGE 1 of 4

SUBJECT: INSPECTION OF TANK EQUIPMENT

### I. PROCEDURAL OVERVIEW

All tank equipment must be inspected when entering a Sea-Land facility, whether empty, loaded or in relay. It is the responsibility of the origin terminal to only load tanks aboard a vessel which have been determined to be fit for service and for conditions which will be encountered at sea without leaking.

## II. ORGANIZATIONAL UNITS AFFECTED

- All Sea-Land port and terminal facilities, worldwide.
- Corporate Special Commodities Services.
- All Garage Managers.
- All Special Commodities Operations Personnel.
- Corporate Equipment Engineering and Maintenance.

### III. DEFINITION OF TERMS

None.

### IV. OTHER RELATED POLICIES OR PROCEDURES

None.

#### V. RESPONSIBLE STAFF DEPARTMENT

Land Operations Services, Elizabeth, N.J.

#### VI. PROCEDURE

### A. Origin Port Inspection

#### 1. Empty Tank

When an empty tank arrives at a Sea-Land port or terminal, Maintenance personnel will perform an inspection. Form SL 660 (see Exhibit A) is completed in duplicate and all questions must be answered. Prior to dispatching a MC 306 or MC 307 tank to pick up a load, all gaskets must be replaced (with new gaskets)



REF. NO.

07-99-015

DATE ISSUED

18 Sept. 1978

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Original

PAGE

2 of 4

## VI. PROCEDURE (cont'd)

SUBJECT: INSPECTION OF TANK EQUIPMENT

and a 10 psig (0.69 bars) pressure test, as described in 2.b. below, must be performed. The Terminal Manager may waive the required 10 psig pressure test if the empty tank is not being dispatched to pick up a hazardous material.

If any deficiencies are found, corrective action must be taken before the tank equipment can be used.

For those tanks that cannot be pressure checked after loading (see A.2.a.) all gaskets must be replaced and the shipper must be specially counseled as to proper procedures for securing all fittings prior to dispatching the tank.

#### 2. Loaded Tank

a. Special Commodities Services Representative

When a loaded tank arrives at a Sea-Land port or terminal, the Special Commodities Services representative (or the person designated by the Terminal Manager to act as Special Commodities Services Representative) will initiate the inspection by completing the appropriate sections of form SL. 660. All instructions as to placarding, opening of dome covers, sealing, etc. are to be outlined on the form by the S.C.S. (Special Commodities Services) representative before submitting it to Maintenance personnel to perform the mechanical inspection and pressure check. All loaded tanks; must be pressure checked on arrival at terminal except:

- (1) MC 303 series of tank.
- (2) Tanks already under pressure by inert gas.
- (3) Tanks containing products reactive to air or moistures.
- (4) Tanks with customer seals for product quality integrity: (Coca Cola syrup, etc.).

#### b. Maintenance Personnel

Upon receipt of the partially completed SL 660 form, Maintenance personnel will perform the mechanical inspection excluding item 29 and 30 on the form. If the tank can be air pressure checked, (as determined by the Special Commodities Representative) the following low pressure check must be performed:



07-99-015 'REF. NO.

18 Sept. 1978 DATE ISSUED

SUBJECT: INSPECTION OF TANK EQUIPMENT

Original REVISION NO.

> 3 of 4 PAGE

#### PROCEDURE (cont'd) VI.

Remove blank flange on pressure inlet (nitrogen fitting).

(2) Install test fixture.

Apply air pressure of 10 psig. (0.69 bars).

Note: Ensure that the temperature of the supplied air is within a few degrees of ambient (temperature of air surrounding tank) temperature.

(4) Shut off air supply pressure.

(5) Observe air pressure gauge for loss of pressure for a

period of five to ten minutes.

Coat all gasket areas and packing glands with soapy water (only necessary for unloaded tanks) and inspect dome covers, vent valves, and discharge valve assembly with all items in their normally closed position for evidence of air or product leakage.

(7) If no air pressure loss is noted and no evidence of product leakage is observed, relieve air pressure, replace test fixture with blank flange and release shipper's agent and load for packing and/or stowage.

If the inspection reveals any discrepancies in the ability of the tank to retain cargo, the Maintenance person will contact the S.C.S. representative for a joint decision as to corrective action to be taken. (Either fix the tank or return load to shipper.) Under no circumstances shall a tank be placed aboard a vessel if it is not able to retain the cargo, if it fails to hold pressure or if there is any evidence of cargo leakage.

After completion of the form, Maintenance will return both copies to the S.C.S representative if the tank is satisfactory.

## Relay Port Inspection

When loaded tank equipment passes through a relay port, personnel at the relay port must inspect each tank for leakage or gasket deterioration. If any problem is found, corrective action should be taken and a form SL 660 should be completed to describe the activity.



REF. NO. 07-99-015

DATE ISSUED 18 Sept. 1978

REVISION NO. Original

PAGE 4 of 4

SUBJECT: INSPECTION OF TANK EQUIPMENT

VI. PROCEDURE (cont'd)

C. Processing of Form SL 660

On a weekly basis, terminal or port Maintenance and S.C.S.. representatives must forward a copy of all inspection forms to the Equipment Engineering and Maintenance Department, Elizabeth, N.J.

## VII. EXHIBITS

No.

## Subject

A Tank Inspection Form (SL 660)

B Test Fixture Specification Drawing

REF. NO. 07-99-015

DATE ISSUED 18 Sept. 1978

REVISION NO. Original

PAGE EXHIBIT A

TANK INSPECTION TANK					P	ATE	TERMINAL	
EMPTY DLOADED			DESTINATION					
CARRIER MEETS CONDITIONS OF APPR							MMODITIES [ANK, GASKETS, ETC.]	
NAM			LIST-TANKS FOR CARR	AGE	(RIG	HT T.	ANK, GASKETS, ETC.)	
TYPE		COMBUSTABLE FLAME		7	Č		ROSIVE NONE OTHER	
SPEC	IAL		NO BREAK YES NO	-			YES NO	
INST	RUC.	TIONS DOME COVERS	OUTAGE CHECK		10 PS	GHY	YDAO REQUIRED []	
	TOM		GROSS WEIGHT	••••		· · · · ·		
SEA		S YES NO	TARE WEIGHT	••••		• • • • •		
		MEASUREMENT WEIGHT	MAX, PRODUCT W	FIGU	· · · · ·	• • • •		
		ם ם	COMMODITY DEPT			s)		
. /-				CHECI	<del>,</del>			
~	IF O	K ~ "X" IF NOT		HERE		<del>-</del>	EMEC MARI BREAKSEALS OLD NEW	
F	1	REQUIRED DATA PLATE(S) MUST BE PRESENT AND PERMANENTLY ( HYDROSTATIC TESY PLATE	FFIXED			19	AS OUTLINED IN SPECIAL INSTRUCTIONS  DOME COVERS	
R	2	DATE MUST BE WITHIN 5 YEARS, IF NOT BE MADE TO E E & M DEPT, IELIZ, N.J.)	OTIFICATION MUST			20	Must be gasketed and when closed gasket remains in rogition	
N	3	PLACARD MUST CORRESPOND TO INFORMATION SI	PPLIED BY S.C.S.			21	MOLD DOWN LUGS MUST BE TIGHTENED DOWN SECURELY	
	4 EMENGENCY CARLE OPERATOR MUST OPERATE FREELY					22	DRAINS MUST BE CLEAN - NO DISTRUCTIONS OR DAMAGE TO PREVENT GRAINAGE	
R	6 HEATING PANEL RELIEF VALVE				ŏ	23	MC 303 VENT MUST BE IM POSITION, OPERABLE, ON INSIDE OF DOME COVER.	
Ğ						24	AIC 303 PUSIBLE PLATE MUST SE IN POSITION - NOT DAMAGED AND TIGHTENED	
H						25	NC DOS VENT - GUARDIAN 149 (GASKETREPLACED) MUST BE CLEAN, OPERABLE AND TESTED WITHIN 5 MONTHS.	
•						26	MC 337 VENT GUARDIAN 300 (GASKET ŘEPLACED) MUST SE CLEAN, OPERABLE AND TESTED WITHIN 6 MONTHS	
ç						27	NITROGEN FITTING MUST NOT BE CRACKED ON BROKEN WITH GASKET IN PLACE AND TICHTENED	
ò						28	MAKE INTERNAL INSPECTION ONLY IF CLEAN AND CHECKED FOR YES NO GAS OR YES NO	
11 BREAKSEALS OLO NEW NO.					è	29	WELDS -PTS - CORROSION, IF ANY DETERIORATION IS NOTED - DEADLINE AND REPAIR PROBLEM	
D 1 AS OUTLINED IN SPECIAL INSTRUCTIONS 1 12 INTERNAL VALVE OPERATOR — MC 308; MC 307 MUST 8E OPERAGLE				T		30	PLACARD MUST CORRESPOND TO INFORMATION SUPPLIED BY S.C.S.	
S	13	INTERNAL VALVE ROD - MC 308; MC 307 MUST BE IN PLACE AND PROPERLY ADJU	STED	1-		31	THERMOMETER MUST BE IN PLACE	
H	14	FUSIBLE LINK - MC 308- MC 307		一		32	- · · · · · · · · · · · · · · · · · · ·	
R	15	EMERGENCY CABLE - NC 306: NC 307 MUST BE PROPERLY ATTACHED AND OP	RABLE FROM REMOTE	1-		33	THE SI ATS	
E	16	DISCHARGE VALVE - MC 308: MC 307		+-		34		
B	17	TIGHTEN ALL BOLTS - NC 308: MC 307	AUST BE PROPERLY TIGHTÉNED TIGHTEN ALL BOLTS - MC 309; MC 307				MC 363 EMERGENCY CABLE	
X	18	ALL BOLTS MUST BE PROPERLY TIGHTENED LINE CAP - NC 305: MC 307				35	FROM REMOTE LOCATION  NOT 303 FUSIBLE LINK	
18 GASKETS MUST BE IN PLACE AND CAP TIGHTENED						37	MUST BE IN PLACE AND NOT DAMAGED  MC 202 LINE GATE VALVE MUST BE PROPERLY TIGHTENED	
•						38	MC 303 LINE CAP	
INSPECTORS SIGNATURE DATE						39	MC 203 TIGHTEN ALL BOLTS	
						40	MC 303 HEATING PANEL CUTLETS	
REMARKS						41	SIDE PANELING	
,						42	PI ACARD & PRODUCT NAME	
							MUST CORRESPOND TO INFORMATION SUPPLIED BY S.C.S. DOT EXEMPTION HUMBER - MUST BE STEACHED AND LEGISLE	
							FRE TRIP INSPECTION DATE	
						44	PERSON PERFORMING INSPECTION MUST DATE TANK, SIGN FORM AND RETURN IT TO SPECIAL COMMODITIES DEPT. ANY AND ALL DISCREPANCIES TO BE CORRECTED MUST BE	
TANKS WILL BE DEADLINED IF ITEMS 1, 2, 3, 7, 23, 26, 29, 30, 42, 43, 44, 43 ARE NOT OKAY, TANKS ARE NOT TO BE LOADED UNLESS THESE ITEMS ARE CORRECTED.						45	NOTED IN REMARKS OF ON BACK OF FORM LISTING BY MUMBER.	
INE	THESE TIEMS ARE CORRECTED.						PASSED TOPSIGNED RESTAURCE SESS	

SUBJECT: INSPECTION OF TANK EQUIPMENT

REF. NO. 07-99-015

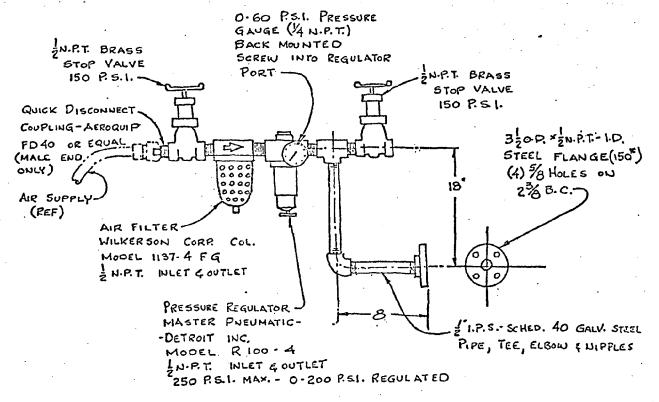
DATE ISSUED 18 Sept. 1978

REVISION NO. Original\*

PAGE EXHIBIT B

SUBJECT: INSPECTION OF TANK EQUIPMENT

Corporate Equipment, Engineering and Maintenance will order the pertinent parts for the air test apparatus for all garages.



TANK CONTAINER
AIR TEST APPARATUS

SK-1035 Rev. 1 Sentition

\*Page Revised 1/12/79



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07-99-005

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SUBJECT:

REPORTING OF HAZARDOUS MATERIALS

INCIDENTS

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## I. PROCEDURAL OVERVIEW

It is the responsibility of the affected Torminel or Sea Gordeline Hanager to report hazardous materials incidents to the Department of Transportation and Sea-Land management. Series incidents are reported on a Report of Transportation Hazardous Materials Incident Report.

## II. ORGANIZATIONAL UNITS AFFECTED

- All Sea-Land Port and Terminal Managers
- Members of the Hazardous Commodities Ravies Caranteges
- Masters of all Sea-Land Vessels
- 6 All Sea Operations Managers

## III. DEFINITION OF TERMS

Hazardous Materials Incident - en occurence that to case of the fattase ing:

- A. A person is killed;
- B. A person is injured requiring his hospicalizations
- C. Estimated carrier or other property demage execute 650,000
- D. A situation exists that represents a continuing damps on 1965 at the scene of the incident;
- E. Fire, breakage, spillage or suspected controlled course frontings a shipment of radioactive material or otiologic accesses
- F. There has been an unintentional release of branches companies from a package (including a tank).

### IV. OTHER RELATED POLICIES OR PROCEDURES

None.



REF. NO.

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SUBJECT:

REPORTING OF HAZARDOUS MATERIALS INCIDENTS

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PAGE

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## V. RESPONSIBLE STAFF DEPARTMENT

Land Operations Services, Elizabeth, N.J.

### VI. PROCEDURE

## A. Identification of Incident

The first person who identifies a hazardous materials incident is responsible, by law, to report the incident to appropriate management as soon as possible. If aboard a vessel, the master must be notified who will in turn notify the Sea Operations Manager of the vessel's home port; if on land, the Terminal Manager must be notified.

## B. Report of Incident

### 1. Telephone Report

If an incident occurs on a Sea-Land vessel or in the United States which involves items A through E of the Hazardous Materials Incident definition above, the Terminal Manager or Sea Operations Manager must telephone the Department of Transportation at (202) 426-1830 and report the following:

- a. Reporter's name,
- b. Name and address of carrier,
- c. Telephone number where reporter can be contacted,
- d. Date, time and location of incident,
- e. Extent of injuries, if any,
- f. Classification, name and quantity of hazardous materials involved, if such information is available,
- g. Type of incident and nature of hazardous materials involved and whether a continuing danger to life exists at the scene.

If the incident involves an etiologic agent, the above information must also be telephoned to the Center for Disease Control, U.S. Public Health Service, Atlanta, Georgia (404) 633-5313.

The above information must also be telephoned to the Director of Hazardous Commodities Services (201) 289-6000, ext. 2296 and the Director of Safety (201) 494-2599, etc. 470.

If the incident involves the simple unintentional release of hazardous material (item F. of definition) no telephone report is necessary.



REF. NO.

07-99-005

DATE ISSUED

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SUBJECT:

REPORTING OF HAZARDOUS MATERIALS INCIDENTS

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## VI. PROCEDURE (cont'd)

## 2. Written Report

All incidents must be reported within 15 days of their occurrence by the completion of a Department of Transportation Hazardous Materials Incident Report (Exhibit A). This form will be completed by the Terminal Manager or Sea Operations Manager, as appropriate, and distributed as follows.

- Two copies If incident occurred on a Sea-Land Vessel or in the U.S., the Director, Office of Hazardous Materials Operations, Department of Transportation, Washington, D.C. 20590.
- One copy Director, Hazardous Commodities Services, Elizabeth, N.J.
- One copy Director of Safety, Menlo Park, N.J.

### VII. EXHIBITS

#### Exhibit No.

### Item

A Department of Transportation form DOT F5800.1 "Hazardous Materials Incident Report".

07-99-005

1 August 1977

Original

EXHIBIT A

## SUBJECT: REPORTING OF HAZARDOUS MATERIALS INCIDENTS

			TRANSPORTATION	Form Approved 040 No. 84.5613						
•	•		LS INCIDENT REPOR							
Tran item may	under Section II, "Remarks", Levin	, (ATTN: Op. Div.). Iz to the entry numbe ordous Materials Rep	If space provided for r being completed. Cop pulations Board. Additi	s Regulations Board, Department of any item is inadequate, complete that ites of this form, in limited quantities, onal copies in this prescribed format						
A IN	CIDENT									
	TYPE OF OPERATION		FREIGHT	OTHER						
	1 AIR 2 HIGHWAY 3									
2.	DATE AND TIME OF INCIDENT (NOW		3. LOCATION OF INC	DENT						
1	•			•						
3 RE	PORTING CARRIER, COMPANY OR IN	IDIVIDUAL	<u> </u>	•						
1	FULL NAME	•	S. ADDRESS (Number,	Street, City, State and Zip Code)						
1		•								
-	TYPE OF VEHICLE OR FACILITY		J	<u> </u>						
1"	·			• •						
SH	HPHENT INFORMATION		· · · · · · · · · · · · · · · · · · ·							
7.	NAME AND ADDRESS OF SHIPPER (O	rigin eddress)	8. NAME AND ADDRE	SS OF CONSIGNEE (Destination address)						
١.		•	1							
-		.•								
1		•		<i>:</i>						
3.	SHIPPING PAPER IDENTIFICATION	NO.	10. SHIPPING PAPER	S ISSUED BY						
1	_	: •	CARRIER	SHIPPER						
			TOTHER							
ĺ			(Identity)	·						
2 0!			<del></del>							
1	DUE TO HAZARDDU DUE TO HAZARDDU		LVEO	13. ESTIMATED AMOUNT OF LOSS AND/O						
11	. NUMBER PERSONS INJURED	12. NUMBER PERSO	AS KILLED	PROPERTY DAMAGE INCLUDING COS OF DECONTAMINATION (Round off in dollars)						
14	. ESTIMATED TOTAL QUANTITY OF	HAZARDOUS MATERIA	ALS RELEASED							
			` '							
_										
E   H.	IZARDOUS HATERIALS PIVOLVED	T								
	15. CLASSIFICATION (Sec. 172.4)	. 15. SHIF	PPING NAME c. 172.5)	17. TRACE HAME						
	•									
1										
F NA	TURE OF PACKAGING FAILURE	<u> </u>								
<u></u>	18. (Check all applicable bores)									
	1	TT -								
L	(1) DROPPED IN HANDLING	12) EXTERNAL	PUNCTURE	IN DAMAGE BY OTHER FREIGHT						
	(4) WATER DAMAGE .	(5) DAMAGE F	ROM OTHER LIQUID	16) FREEZING						
	171 EXTERNAL HEAT	(B) INTERNAL	PRESSURE	19) CORROSION OR RUST						
	(10) DEFECTIVE FITTINGS.	(11) LOOSE FI CLOSURE	TTINGS, VALVES OR	112 FAILURE OF INNER RECEPTACLES						
	(13) GOTTOM FAILURE	(14) BODY OR	SIDE FAILURE	(15) WELD FAILURE						
	(16) CHIME FAILURE	1171 OTHER CO	ONDITIONS (Identity)	19. SPACE FOR DOT USE ONLY						
$\perp$	Tiol Chime Paicons									

07-99-005

1 August 1977

Original

EXHIBIT A (page 2 of 2)

SUBJECT: REPORTING OF HAZARDOUS MATERIALS INCIDENTS

		_					
	ITEM			***		. FZ	*3
20	TYPE OF PACKAGING RECEPTACLES (SIGH)	1215	TENDING INNER		·		
4	CAPACITY OR WEIGHT		TRUMP .			· · · · · · · · · · · · · · · · · · ·	
21	(SS fallans, 65 lbs., etc.	<u>,                                    </u>					
22	HUMBER OF PACKAGE MATERIAL ESCAPED	S F	ROM WHICH			•	•
23	NUMBER OF PACKAGE IN SHIPMENT			·			
24	DOT SPECIFICATION PACKAGES (21P. 17E.			-			
23	SHOW ALL OTHER DOT HARKINGS (Part 178)	P	ACKAGING			•	<u> </u>
26	HAME, SYMBOL, OR REDER OF PACKAGING N					· · · · · · · · · · · · · · · · · · ·	
27	SHOW SERIAL NUMBER CARGO TANKS, TANK	CA	F CYLINDERS. RS, PORTABLE			•	
23	TANKS	. >,	PL;ED	<u> </u>			
		Ī	REGISTRATION		· ·		
١	IF RECONDITIONED	Ĺ	NO. OR SYMBOL	<u> </u>		•	
23	, or	В	TEST OF INSPEC	-	. 1	•	
ļ	REQUALIFIED, SHOW	<u>_</u>	OT OR USEG	<del> </del>			
00	SPECIAL PERMIT, EN	TE	R PERMIT HO.	1	}		
	NAME OF PERSON PRE				•		
		-					



# SEA-LAND SERVICE, INC. PROCEDURE TRANSMITTAL SHEET

DATE: 22 January 1979

TO: SEE DISTRIBUTION

FROM: ELIZABETH - C. A. Rodina, Information Systems

SUBJECT: BOOKING OF HAZARDOUS MATERIALS

		<del> </del>	
<u> </u>	CONCURRENCE		II. INFORMATION COPIES TO
	M. Augustyniak Originaria  R. L. Henning	7/2/74 Date Date	G. Cople, Hong Kong T. Yost, Iselin S. Palen, Rotterdam C. Raymond, Ft. Lauderdale N. Porter, Anchorage J. Hinchcliffe, Seattle
	Dir. Bulk Comm. Ser.	Date	R. Ingram, Rio De Janeiro
	M. T. Bohlman	Date	
1. 13	1 MIT.B.	3/3//79	
}	P	Date	
1	Reg. Compliance		
		Date	
	S/Buskey	2/2/	
	Information Systems	Date	
		Date	

- I. CONCURRENCE Please review the attached procedure and indicate any minor changes directly on the draft. Indicate concurrence by signing above your title and returning to me. Information Systems will telex reminders on FEB 2: 1070; comments received through 150 28 1979 will be included in final procedure. If you have major disagreement with the content of this procedure, please resolve with Originator before the above date and notify me of status.
- II. INFORMATION COPIES If you feel that your concurrence with the content of this procedure should be required, please notify me immediately.

cc: All Operating and Executive Committee Members



REF. NO.

07-99-026

DATE ISSUED

28 Feb. 1979

SUBJECT:

BOOKING OF HAZARDOUS MATERIALS

REVISION NO.

Original

PAGE

1 of 5

## I. PROCEDURAL OVERVIEW

Guidelines are set forth that allow Sea-Land to handle the maximum amount of approved types of hazardous materials without derogating safety.

## II. ORGANIZATIONAL UNITS AFFECTED

- All Sea-Land Terminal, Port and Country Managers.
- All Division LP&C/SCS Managers
- All Sea Operations General Managers, Regional Managers and Managers.
- All Booking Personnel.
- All Sales Personnel.
- All Masters of Sea-Land Vessels.
- Members of the Hazardous Commodities Review Committee.

#### III. DEFINITION OF TERMS

• Hazardous Cargo - cargo that is regulated as a hazardous material and is not specifically listed within this procedure as prohibited, restricted, or cargo which requires special handling.

#### IV. OTHER RELATED POLICIES OR PROCEDURES

Policy - 07-07 - Carriage of Hazardous Materials.

Procedure - 07-07-001 - Carriage of Hazardous Materials by Sea-Land.

#### V. RESPONSIBLE STAFF DEPARTMENT

Land Operations Services Department, Elizabeth, N.J. (Hazardous Commodities Review Committee. Contact members of the HCRC: R.E. Henning, M.T. Bohlman, H. Krulder, J. Klein.)

### VI. PROCEDURE

A. Class A explosives, Class A Poison, Cryogenic Liquids, Pyrophoric Liquids (in bulk i.e. packages over 110 gallons capacity) and organic peroxides (requiring refrigeration) are prohibited by Sea-Land Service. (See procedure 07-07-001 for expanded list of prohibited cargo.)



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SUBJECT: BOOKING OF HAZARDOUS MATERIALS

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## VI. PROCEDURE (cont'd)

- B. Booking numbers are not to be issued for restricted hazardous materials such as, Class B explosives, IMCO poison gases, Fluorine, Chlorine, Hydrogen Bromide, Borin Trifloride or Sodium Cyanide without prior approval of the Hazardous Commodities Review Committee (HCRC) and Division Management. See procedure 07-07-001 for an expanded list of restricted materials and how to request HCRC approval.
- C. Radioactive material, Class C explosives, Ammunition, Ammonia Nitrate, Nitro Carbo, Nitral, Motor Fuel Antiknock Compound, Tetra Ethyl Lead, Yellow Phosphorous, cigarette lighters and motor vehicles require special handling. Procedure 07-07-001 must be checked before issuing booking numbers when dealing with these commodities.

When booking hazardous material or dangerous cargo, the following information is required from the Shipper, Freight Forwarder and any other concerned personnel.

- Service
- Booking Number (issued by Booking Department).
- Vessel/Voyage.
- Sailing Date.
- . Supplier (if other than the shipper).
- Freight Forwarder (if one is utilized).
- Shipper.
- · Ordered by (Name of individual requesting booking).
- Telephone number of individual requesting booking. Emergency response number if any.
- Commodity (proper shipping name or correct technical name as found in 49 CFR or IMCO code).
- Flash Point or Flash Point range (if a flammable or inflammable liquid).
- United Nations number.
- IMCO Class or DOT class.
- Type of equipment
- Weight and number of pieces to be shipped.
- Stowage information (to be determined from Hazardous Material List in conjunction with 49 CFR).
- Placard requirement (to be determined by Booking Department from Hazardous Material List or customer).
- Consignee.



## PROCEDURE

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## VI. PROCEDURE (cont'd)

- Port of destination.
- Pick up information.
- Special instructions.
- A. Booking personnel should remind customer to supply a signed shipper certification as required by 49 CFR and that shipment must be labeled, packaged and placarded properly for movement via vessel.
- B. Copy of booking input card should be given to the area Hazardous Material Representative or Safety Manager for their review, until such time when system can supply them with a printed run of all hazardous material booked in their area.
- C. When LTL Hazardous Cargo shipments are transported, a copy of the booking input card should be forwarded to the Manager or Supervisor of the warehouse where the cargo is to be received.



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## VI. PROCEDURE (cont'd)

## Booking - Tank Procedure

Commodities not specifically listed by name in the Approved Commodities List - Tanks should not be booked for carriage in S/L's tank-containers.

When booking hazardous materials or non-hazardous material for movement in Sea-Land tanks, the following information should be disseminated or obtained as applicable:

Customer needs to know:

- Booking Number (not to be issued if product is not on Approved Commodities List Tanks).
- Vessel/Voyage
- Sailing Date

### Sea-Land requires:

- Supplier (if other than shipper).
- Freight Forwarder (if one is utilized).
- Shipper.
- Ordered by (Name and telephone number of individual requesting booking).
- Commodity (Proper shipping name for hazardous material or correct technical name. Either <u>must</u> appear on the Approved Commodities List-Tanks before accepting the booking. If not on list, contact Director, Special Commodities Services, Elizabeth.
- Type of equipment (to be determined by Booking Department from Approved Commodities List Tanks) Do not use any other type of tank(s) than authorized.
- Number of tanks.
- Weight of shipment (The Approved Commodities List-Tanks must be consulted to ensure the maximum weight limitation has not been exceeded.)
- Stowage information (To be determined by Booking Department from Approved Commodities List-Tanks).
- Placard requirement.
- Consignee.
- Port of destination.
- Pick-up information (Name of primary carrier/alternate carrier, instructions, etc.)



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## VI. PROCEDURE (cont'd)

 Nitrogen hookup (To be indicated when a nitrogen blanket is necessary.)

• Special instructions (Shippers numbers, accessorial equipment, etc.)

• D/R information (Name of individual taking booking and date of booking. (To be filled in by Booking Department.)

\*Note: Booking Department should remind customer to place the proper shipping name on both sides of S/L tanks (in 2 inch letters) along with proper placards when product is a hazardous material.

## Reefer - Booking Procedure

Only those products authorized for movement in reefers on the Hazardous Material List or those specifically authorized by Corporate Special Commodities Service shall be booked - See procedure 07-07-001 exhibit G.

Codes on the Hazardous Material List for reefers are:

Yes - May be loaded into reefers.

No - May not be loaded into reefers.

UNK - unknown: shipper must supply chemical data sheet on product to Special Commodities Service.

NOR - Non-operating reefer only.

Booking numbers should not be issued to customers if there is any uncertainty about the product or its suitability for carriage in Sea-Land reefers.

### VII. EXHIBITS

No.

### Description

Hazardous Materials in Refrigerated Containers.

REF. NO. 07-99--026

DATE ISSUED

28 Feb. 1979

**BOOKING OF HAZARDOUS MATERIALS** 

REVISION NO.

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PAGE

EXHIBIT A

#### HAZARDOUS MATERIALS IN REFRIGERATED CONTAINERS

Organic peroxides requiring refrigeration for stabilization (see prohibited cargo list) and flammable liquids with a flash point below 0 degrees F are prohibited from carriage in an operating refrigerated container on board Sea-Land vessels.

The following categories of hazardous materials can be carried on board Sea-Land vessels in refrigerated containers only with the approval of Director, Perishable Commodities Service, Corporate Special Commodities Service:

- a. Hazardous materials in packages fitted with vents or relief devices.
- Hazardous materials with an oral rate LD<sub>50</sub> value of 3000 mg/kg or less.
- c. Hazardous materials with a flash point below 73 degrees F provided the set temperature of the reefer is at least 5 degrees below the product's flash point.
- d. Organic peroxides (other than those prohibited) with a SADT of 55 degrees F or higher.

In all cases, hazardous materials transported in refrigerated containers must be in packages that will maintain their integrity (i.e., leaktight) at an ambient temperature of 130 degrees F. For packages containing liquids the ullage space must not disappear at temperatures below 130 degrees F.

